BRITISH RAINFALL, 1891.

LONDON :

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—

1892.

FLUCTUATION OF ANNUAL RAINFALL FROM A.D. 1726 TO A.D. 1891.

BRITISH RAINFALL, 1891.

ON

THE DISTRIBUTION OF RAIN

OVER THE

BRITISH ISLES,

DURING THE YEAR

1891,

AS OBSERVED AT NEARLY 3000 STATIONS IN GREAT BRITAIN AND IRELAND,

WITH ARTICLES UPON VARIOUS BRANCHES OF RAINFALL WORK.

COMPILED BY

G. J. SYMONS, F.R.S.,

CHEVALIER DE LA LÉGION D'HONNEUR,

Secretary Royal Meteorological Society; Membre du Conseil Société Météorologique de France; Member Scottish Meteorological Society; Korrespondirendes Mitgleid Deutsche Meteorologische Gesellschaft; Registrar of Sanitary Institute; Fellow Royal Colonial Institute; Membre correspondant étranger Soc. Royale de Médecine Publique de Belgique, &c. &c.

AND

H. SOWERBY WALLIS, F.R.Met.Soc.

LONDON:
EDWARD STANFORD, COCKSPUR STREET, S.W.
1892.

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ERRATA IN BRITISH RAINFALL 1890.

Page 21. Thirteen lines from bottom, *for* Old Ford, *read* Lee Bridge.

,, 27. Eleven ,, ,, ,, ,, ,, ,, ,, ,,

,, [121]. Glenlee, October, *should be* 3·60; and the year, 54·62.

,, [124]. In some copies the following queer misprint occurs—

	Actual.		*Should be.*
,,	Sleitrim.....	,,	Leitrim .....
XXIII.	LFemr	XXIII.	Fermanagh.....
,,	Cavanagh	,,	Cavan.....

,, [129]. Last line, 37·20, *should be* 36·20; and 5 *should be* 3.

,, [141]. *Omit* 8th and 15th entries—they are duplicates.

,, [148]. Welwyn. The total *should be* 23·12.

BRITISH RAINFALL, 1891.

THE exceptional character of the rainfall of 1891 has involved, not merely a difference in the facts and figures to be reported, but to some extent a change in the arrangement of the book itself. So much time and care have been needed to deal properly with the records of 1891 that little has been available for experimental work, and therefore the latter portion of the volume has been developed at the expense of the former. This was obviously desirable because we could not go back upon 1891 in subsequent years, but the experimental and historical work can wait for fuller notice in an ordinary year.

The result has been to give Mr. Sowerby Wallis and myself the hardest seven months' work we have ever had; but at last this volume is finished, and I hope that it will be found worthy of the important facts which it chronicles.

G. J. SYMONS.

62, CAMDEN SQUARE, LONDON, N.W.
July 28th, 1892.

REPORT.

The Exceptional Character of 1891.—The natural result of trying, for upwards of thirty years, to make an annual work better in each succeeding year, is to make it quite a different undertaking at the end of so long a period from what it was at the commencement. And when to that inevitable cause is superadded the fact that the material to be dealt with has increased to twenty times what it originally was, some idea may be formed of the relative labour of compiling "*English Rainfall*, 1860," and "*British Rainfall*, 1891." But, as it happens, even that is not all that has fallen upon us this year, for we have had to deal with a year full of exceptional, and, in some cases, unprecedented phenomena. Among these we have the Drought in February, the West of England Blizzard in March, the various wet months in the latter part of the year, and the anomalous disproportion between the rain of the early and of the latter part of the year. All the data respecting these events have had to be checked, and some of them fully worked up. Moreover, naturally the remarks by the observers have been of more than usual interest and importance, and they have required much time for verification, classification, and fair copying for the printer. Much of the extra work, caused by the special phenomena mentioned above, does not appear in this volume at all.

Perhaps the mention of two typical cases may tend to make observers more careful, and to lessen our work in future. In spite of Rule IX., some observers will persist in entering the rain against the day on which they measure it, instead of against the previous day. There was generally rain on January 31st—this, of course, was measured on February 1st; but, by all careful observers, it was entered to January 31st. When it became our duty to work up the February returns, all these wrong date observations became evident, and had to be corrected before anything trustworthy could be prepared. The Devonshire blizzard was also the cause of much work. Some observers were brave and careful, and obtained valuable results; but it was not easy to do so. One observer was barricaded with 5 ft. of snow against every door. Several gauges were buried

under drifts ; one lady found that the wind had swept the grass clean all round the rain-gauge, and piled the snow more than 5 ft. deep near the entrance gates to her house, and she wrote to enquire what she was to enter as the depth of snow. Questions like these could be answered only after examining photographs and all available printed and MS. notes from surrounding stations ; and, after all, nothing but approximate values could be given. The only trace of this work in the present volume is the fact that, in the General Tables, some of the totals are printed in italic figures, thereby indicating that they have been corrected. The result of all this, and of other exceptional work, is to make this yearly volume of *British Rainfall* appear later than usual.

Enquiry after other Observers.—In the last volume I put a short paragraph asking for information as to additional observers. I do not like to reprint it, and yet it produced very little effect. I know that some who received the volume could have helped materially, and did not. Probably either they do not read the book when they get it, or they did not think it worth while to trouble to write. That is not energetic aid ; but as regards the correspondents of whom I am thinking, it did not matter—I got the extra returns all the same.

Rotherham Experimental Gauges.—I regret that owing to the death of Mr. Berry, who has furnished me with copies of the records of these instruments ever since Mr. Chrimes presented them to the Corporation, the records have not reached me in such a condition as to justify publication. The gauges themselves, after more than twenty years' daily use, need restoration. I have been to Rotherham and examined them, but nothing is yet settled, as the Corporation decline to pay for the repairs.

Old Observation Books.—Very few of these have been sent in during the past year ; in fact, as far as I remember, only one has been presented, viz., that kept by the Rev. A. J. T. Morris at Muthill, Perthshire, sent by his daughter. Another was purchased, and it is curious as containing two English records (not very long ones), of which I had not previously heard.

Rain Gauges Overflowing.—For the first time for many years there is not a single record spoiled in this way, but there is a somewhat analagous case —the gauge at Loch Vraon, Ross-shire, was washed away by a flood *in February !*

Self-Recording Rain Gauges.—The Casella and the cheap Richard gauges at Camden Square have both acted perfectly. The one designed by Mr. W. J. E. Binnie has been completed, exhibited and described at the Royal Meteorological Society, and some of them are now being made for sale. Mr. Binnie is kindly superintending the application of one to record on the Richard Brontometer, and I shall, therefore, I hope, next year be able to write positively about it.

English Lakes.—Although mentioned in the *Chronicle* in our last volume, and necessarily briefly again in the present one, I think it only right to mention here our indebtedness to Mr. Stephen A. Marshall, of Skelwith Fold, for establishing, and obtaining, numerous rain records from a district previously untouched—viz., that known as the Langdales. Dr. Miller and Mr. Isaac Fletcher, M.P., followed by the late Mr. Maitland, have in turn borne the cost and care of observations in the Scafell and Borrowdale Districts. Other members of the Marshall family have helped in other parts of the Lake District; I put up a number of gauges in its eastern portion, but until Mr. Stephen Marshall settled at Skelwith Fold the fall in the vicinity of Dungeon Ghyll was quite unknown.

Irish Rainfall.—Here is another case of very important help by one observer. There is hardly any comparison between our tables for Cavan and surrounding counties between 1889 and 1891, and the whole of that improvement is due to Major Somerset Maxwell, who has not merely supplied many of the instruments, but has kept a regular watch over the observers, and by tabulating the whole of the records day by day has raised the quality of the observations very nearly to perfection. If we could but find four or five similar helpers for other parts of Ireland, the Sister Isle would in rainfall matters leave England far behind.

Finance.—Although still without help either from any Society or from Government, I think that the rainfall organization may be regarded as firmly established. In fact, it is probably more secure of maintenance than it would be if it depended either on Parliament or on any Society; because a sudden division may stop a Parliamentary grant, and personal feelings may gain dominion over the Council of a Society; but a work which rests upon the individual support of hundreds of persons in all parts of the country, and in all stations of life, is hardly likely to be abandoned as long as it is

honestly and well done. I have always felt that I can repay the kindness of the observers generally, only by doing the best in my power with the observations and funds which they place at my disposal; and that is why I do not mind how long are the hours I have to work, or how little the relaxation which this great task allows me. As, however, I have now had more than thirty years of it, I must own that I should be glad if it were practicable to obtain further help, and so obtain a little relief. I do not at all suggest that present contributors should tax themselves further, but probably many, by merely mentioning what has been, and is being, done, could obtain additional helpers.

LIST OF ALL SUMS OF £1 AND UPWARDS RECEIVED IN PAYMENT FOR BOOKS, DIAGRAMS, &c., OR AS CONTRIBUTIONS TO THE GENERAL EXPENSES OF RAINFALL INVESTIGATIONS IN 1892.

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RECENT ANNUAL RAINFALL COMPARED WITH THAT OF THE PREVIOUS 165 CONSECUTIVE YEARS.

IN the early days of rainfall work I saw the necessity of trying to determine the amount of variation in the total fall of rain in consecutive years, and in the *Report of the British Association* for 1866 I printed an elaborate table giving the actual rainfall at nine stations for various long periods during the period 1726 to 1861, and various calculations based upon them, with finally the ratio of the fall in each year to the mean of the fifty years 1811 to 1861. The values for subsequent years have been given in several volumes of *British Rainfall*, but I understand that it is desired that the diagram representing the facts be given at least each alternate year, and I have therefore reworked the last ten years and annex the figures, while the diagram based upon them forms the frontispiece to this volume.

AMOUNTS.

MEAN.	Chilgrove.	Nash Mills.	Oxford.	Exeter.	Orleton.	Pode Hole.	Boston.	Bolton.	Kendal.
	in.	in.	in.	in.	in.	in.	in.	in.	in.
1830–79	33·61	26·82	23·40	30·33	30·00	25·57	22·66	47·39	51·48
1880 ..	37·52	34·05	(*28·80*)	33·26	35·69	37·12	34·40	43·36	45·06
1881 ...	34·02	31·72	(*24·40*)	32·98	27·17	26·13	26·36	51·56	59·77
1882 ...	35·71	35·22	30·57	38·98	40·71	30·50	30·18	54·07	59·82
1883 ...	32·77	29·39	26·42	33·64	30·73	30·88	32·53	45·99	51·51
1884 ...	26·42	22·52	18·56	27·28	25·96	16·75	16·35	35·75	44·47
1885 ...	33·47	31·56	24·45	35·38	31·12	23·88	23·31	42·28	45·83
1886 ..	38·04	29·11	30·56	33·46	35·37	30·25	26·78	47·17	58·98
1887 ...	25·31	20·44	18·98	22·18	21·07	15·13	14·67	27·92	32·37
1888 ...	35·33	27·76	26·84	32·12	28·80	21·46	22·25	36·59	43·04
1889 ...	29·70	27·62	22·93	23·48	25·91	26·50	23·06	39·60	43·15
1890 ...	29·33	*21·94*	17·42	28·48	23·33	20·12	15·61	43·95	48·13
1891 ...	41·59	31·65	27·05	36·94	32·24	25·13	23·34	47·06	53·89

RATIOS.

Mean.	Chilgrove.	Nash Mills.	Oxford.	Exeter.	Orleton.	Pode Hole.	Boston.	Bolton.	Kendal.	Mean.
1880 ...	112	127	123	110	119	145	152	91	88	119
1881 ...	101	118	104	109	91	102	116	109	116	107
1882 ...	106	131	131	128	136	119	133	114	116	124
1883 ...	98	110	113	111	102	121	144	97	100	111
1884 ...	79	84	79	90	87	66	72	76	86	80
1885 ...	100	118	104	117	104	94	103	89	89	102
1886 ...	113	109	131	110	118	118	118	100	115	115
1887 ...	75	76	81	73	70	59	65	59	63	69
1888 ...	105	104	115	106	96	84	98	77	84	97
1889 ...	89	103	98	77	86	104	102	84	84	92
1890 ...	87	82	74	94	78	79	69	93	93	83
1891 ...	124	118	116	122	107	98	103	99	105	110

I hope that I may assume that every reader is familiar with the mode of forming the above table, and with the object of expressing rainfall as ratios instead of in inches. In case there should be any one who has not mastered this very simple matter, I give an illustration of the mode of working. It will be seen that the average rainfall at Chilgrove was 33·61 inches, and further that in 1880 the fall there was 37·52 inches, therefore obviously the fall in that year was above the average—and as the average, or mean ratio is taken as 100, it is obvious that in 1880 the ratio was above 100. Then—

As 33·61 : 37·52 :: 100 : 112.

and 112 will be found entered as the ratio for that year in the above table.

The advantage of ratios over quantities arises only in cases like the present, where we are trying to determine the *relative* wetness of different years, the great advantage being that we get the proportion of change quite independently of the actual total rainfall at the stations concerned.

It is almost superfluous to explain that the values in the last column of the ratio table are the arithmetical means of those in the nine previous columns, and therefore represent the relative wetness or dryness of the year over a large extent of country—and these are the values represented on the diagram, respecting which we must say a few words.

The two striking features of the diagram are near the extremities. During the first 40 years it will be seen that only nine reach the average, and that from 1738 to 1762, or 25 years, there is only one year above the average. Unless these values are very far from the truth, they indicate an intensity and persistency of drought, which the present generation cannot realize. Less remarkable, but unique, was the succession of nine wet years, which ended with 1883. Since that we have had a dry year in 1884—making the sixth successive year ending with a 4 which has been drier than usual—which looks like strong evidence that 1894 will have less than the average. Jubilee year 1887 was also a very dry year, but there is no suggestion that it belonged to any regular series.

ON THE EXCEPTIONAL FEBRUARY OF 1891.

THE old proverb of "February fill dyke" is not thoroughly borne out by rainfall records, for the month, owing in part to its shortness, is far from being one of the wettest of the year. It is, however, entitled to a substantial fall of rain, and the advocates of ancient weather lore would probably contend that, owing to its general humidity and the consequent absence of evaporation, the whole of the water goes to "fill the dyke," or, as we should express it in these utilitarian days, to feed the water supply.

In a month such as is outlined above, and such as February commonly exhibits itself to the average Englishman, the following statement would seem fabulous:—Near Maidstone, "a field with long grass took fire from a man's pipe-light, the whole of the grass was burnt off, and some of the quick-set hedge burnt and destroyed." Yet this occurred in February, 1891, and the observers' remarks on the month are one series of statements as exceptional, if not as strange.

In describing the general character of the month, it would be contrary to rainfall rules, even if possible, to separate the yield of fog or dew from actual rain, but we do not for an instant dispute the fact that the two or three hundredths of an inch recorded, at a great many stations did not include a measurable quantity of rain, or assert that a drop of rain fell on many of the "rainy days."

To exhaustively detail every feature of the month, as it varied in different parts of the kingdom, would far exceed all reasonable limits, and we shall confine ourselves to tables exhibiting as clearly as possible the average conditions which prevailed in the different counties and divisions, and notes on the more salient features of those tables.

We have tabulated the total fall for the month at all stations available—excluding second gauges—to the number of 2,665, and similarly the number of rainy days; but owing to some gauges being read only once a month, the results relating to rainy days are based on a rather smaller number of stations.

Table I. gives, for each county in England, the average rainfall, average number of rainy days, number of stations reporting ·00 in., and also the percentage which that number is of the total number of records from the county. It shows :—That over no county was the average rainfall less than ·01 in., over three counties the fall did not reach ·02 in., over 15 counties did not reach ·05 in., and over only 11 counties did it exceed ·10 in. That in two counties the rainy days averaged less than 1, in 13 counties averaged less than 2, and in only three counties averaged more than 5. That in Bedfordshire six-tenths of the stations recorded no rain; that in six counties more than one-third of the stations recorded no rain; and that in only eight counties did measurable rain fall at every station.

TABLE I.—*Average Rainfall over the Counties of England in February*, 1891.

County.	Average.		Stations reporting ·00 in.		County.	Average.		Stations reporting ·00 in.	
	Rain	Rainy Days.	Number	Per cent. of Total Number		Rain.	Rainy Days.	Number	Per cent. of Total Number
	in.					in.			
Bedford	·012	0·5	12	60	Kent	·058	3·3	10	11
Middlesex ...	·014	0·7	25	48	Suffolk	·064	3·2	2	6
Buckingham	·017	1·0	7	41	Shropshire	·070	3·2	2	8
Somerset ...	·020	1·0	16	39	Worcester	·072	2·1	1	3
Wilts	·022	1·3	19	35	Durham	·080	2·6	4	11
Gloucester ...	·022	1·3	16	27	Lincoln	·085	2·9	4	7
Oxford	·023	1·6	7	26	Rutland	·087	4·0	0	...
Cambridge ...	·027	1·7	8	30	York, N. Riding	·088	2·8	4	13
Dorset.....	·031	1·1	9	29	Northumberland	·096	2·5	3	7
Monmouth ...	·032	1·0	7	33	Leicester	·096	2·4	1	5
Berkshire ...	·034	1·4	7	26	Stafford.....	·103	3·3	1	3
Hertford.....	·037	1·8	6	14	York, E. Riding	·113	4·9	0	...
Sussex.....	·038	2·0	18	22	Warwick	·115	2·5	0	...
Surrey.....	·040	2·3	19	20	Nottingham	·119	3·3	1	3
Essex	·049	2·2	9	21	Cornwall	·128	3·7	0	...
Northampton	·050	2·3	7	18	Derby	·153	3·3	0	...
Huntingdon	·052	3·6	2	40	Cheshire	·254	3·9	0	...
Devon.....	·053	2·2	20	24	York, W. Riding	·301	3·8	7	3
Norfolk	·053	3·3	8	14	Lancashire	·395	6·5	0	...
Hampshire...	·055	3·0	7	10	Cumberland.....	·509	8·0	1	1
Hereford ...	·055	1·8	2	8	Westmoreland ..	944	8·8	0	...

Table II. is similar to Table I., but the counties are grouped into the divisions employed throughout this work; it shows the same general results as regards England, and gives details for Wales, Scotland, and Ireland, where the county arrangement is less advan-

tageous, because the country being as a rule less densely populated, observers are less numerous, which, coupled with the more varied physiography, would give anomalous results for individual counties.

TABLE II.—*Average Rainfall of February*, 1891, *in the different Divisions, and number of Stations reporting* ·00 *in.*

Division.	Average.		Stations reporting ·00 in.	
	Rainfall.	Days.	Number.	Per cent. of Total Number.
	in.			
I. Middlesex	·014	0·7	25	48
II. South Eastern Counties .	·046	2·6	61	17
III. South Midland Counties.	·032	1·7	49	28
IV. Eastern Counties	·055	2·9	19	14
V. South Western Counties.	·047	1·8	64	27
VI. West Midland Counties..	·066	2·2	22	11
VII. North Midland Counties	·109	3·0	6	4
VIII North Western Counties	·356	5·7	0	0
IX. Yorkshire	·259	3·8	11	4
X. Northern Counties	·403	5·6	8	4
XI. Wales, Monmouth, &c...	·256	3·7	9	6
XII. Southern Counties.....	·396	5·8	...	...
XIII. South Eastern Counties..	·350	4·9	...	...
XIV. South Western Counties	1·089	7·8	...	...
XV. West Midland Counties.	1·900	10·5	..	...
XVI. East Midland Counties...	·639	5·0	...	...
XVII. North Eastern Counties.	·694	6·3	...	...
XVIII. North Western Counties	4·568	12·4	...	...
XIX. Northern Counties...	2·215	9·3	...	...
XX. Munster	·470	6·4	...	...
XXI. Leinster	·247	4·5	...	...
XXII. Connaught	·455	8·2	...	...
XXIII. Ulster	·307	6·8	...	...

Over Wales, owing to its mountainous character, the total varied greatly—from ·00 in. at one or two stations in the south to 1·83 in. at Tyle Brith, Brecon—but the results are generally fairly accordant, and give an average very near to a quarter of an inch.

Scotland naturally divides itself into the "highlands" and the "lowlands," the two divisions, of course, exhibiting a great contrast in their normal rainfall, but the relative deficiency of the month under consideration, ignores the natural variation and shades off as we go northwards, so that in the highlands, the fall, though deficient, was in no way remarkable, and in the extreme north there was considerably more than the average.

The fall over Ireland would appear more remarkable, had it not

been entirely eclipsed, by the far greater deficiency over England. Over the west coasts the fall averaged more than ·50 in., and in the extreme S.W. more than ·75 in., but over the greater part of the country averaged little more than a quarter-of-an-inch.

Table III. gives an epitome of the results for the whole 2,665 stations condensed into the smallest possible limits, and exhibits conditions that no one now living had known before, or will, we fully believe, experience again.

TABLE III.—*Summary of Table* II.

Countries.	Average.		Stations reporting ·00 in.	
	Rainfall.	Days.	Number.	Per cent. of Total Number.
	in.			
England	·145	3·0	265	13
Wales, Monmouth, &c.	·256	3·7	9	6
Scotland	1·377	7·9	0	0
Ireland	·341	6·3	0	0
British Isles	·328	3·8	274	10

Observers familiar with "British Rainfall," from its commencement in 1860, will know that none of the 31 volumes issued contains—not a parallel—but not even a suggestion, of a month so uniformly dry, and research into the old records going back to before 1700 still further emphasizes the phenomenal character of February, 1891.

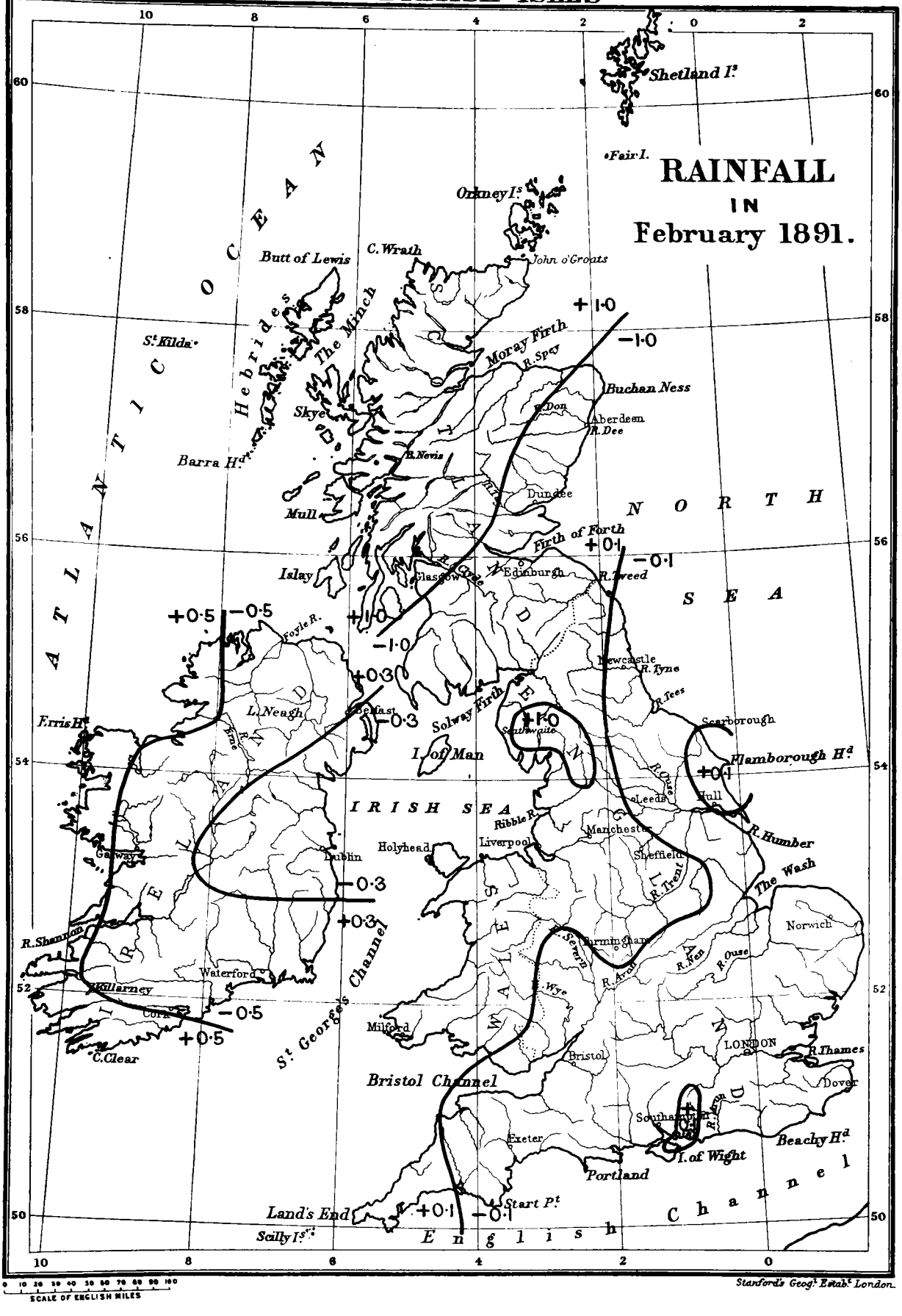
September, 1865, was probably the driest month recorded previously, and will serve to illustrate the point.

	No. of Records from England and Wales.	No. of records not exceeding ·10 in.		No. of records not exceeding ·00 in.	
		Number.	Per cent. of Total No.	Number.	Per cent. of Total No.
Sept. 1865	770	129	17	48	6
Feb. 1891	2160	1303	60	274	13

Showing that, (notwithstanding the improvement in rain-gauges and observation which results in a reduced number of such records) February, 1891, gives more than twice as many records, in proportion, of ·00 in., and nearly four times as many not exceeding ·10 in.

We have always advocated the graphic representation of meteorological phenomena, believing that the eye will grasp the facts more readily, and generally more accurately, than they can be conveyed by long descriptions and heavy tables, and have, therefore, prepared the

THE BRITISH ISLES



accompanying map which agrees very closely with, and, we think, speaks well for, the one given in the *Met. Mag.* for April, 1891, which was based on but one-tenth of the number of records now available.

It depicts the broad general features of the rainfall, and is based on the readings at the individual stations and not on means. It shows that over the great majority of the less hilly part of England the fall was less than one-tenth of an inch. The isohyetal for 0·1 in. running practically straight from Berwick-on-Tweed to Plymouth, except where the high lands of the Peak district protrude into the centre of the country. Of course, local high land produced slightly greater falls over areas too small to be shown, as for instance, parts of Dartmoor and the Malvern Hills.

The fall exceeded an inch over the most mountainous part of the Lake district, and varied so irregularly with the varying altitude over the remainder of the hilly country, and in Wales as to baffle all attempts at description, but an average of a quarter-of-an-inch may be taken as very near the truth.

The fall over the N. and W. of Scotland was not remarkable, but a variation from the ·10 in. recorded at several stations in the S.E., to 15·09 in. at Ben Nevis and 12·14 in. at Glencarron renders it impossible to do more than refer to the table of averages for the different divisions, and to say that S. and E. of the line running from Kinnaird Head to Ardrossan the falls were less than an inch, and average about ·50 in.

Over Ireland the fall was both more exceptional and more regular. At one or two wet stations on the extreme N.W. and W. coasts an inch was exceeded and all along the extreme S.W. coast ·75 in. but the ·50 in. line is not far inland, and the fall decreases eastward with fair regularity, following the normal distribution of the rainfall. In the county of Dublin only two stations recorded more than ·10 in., and over the large area shown the falls were less than ·30 in.

It has been stated as a rough approximation that the deficiency in the supply of rain amounted to:—

250 tons per acre over England.
300 ,, ,, ,, Wales.
150 ,, ,, ,, Scotland.
300 ,, ,, ,, Ireland.

and though the above investigation renders it probable that in the N. and W. of Scotland there was no important deficiency, the values for the other countries are thoroughly confirmed.

ON THE EVAPORATION FROM A WATER SURFACE AT CAMDEN SQUARE, LONDON.

THE daily record of the depth of water evaporated from the surface of a tank, 6 ft. × 6 ft. × 2 ft., buried 20 in. in the ground, and in which about 22 in. of water is usually kept, has been continued. These values are printed *in extenso* on the following page. The entries with a + indicate that condensation had occurred to the amount shown against the +; this is very rare, except when the water is very cold, and generally occurs only when ice is floating in the tank.

The following small tables give abstracts of the records since the tank was fixed in 1885 :—

TOTAL IN EACH MONTH AND YEAR.

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1885.	·20	·38	·86	1·71	1·98	2·77	3·29	2·25	1·13	·77	·17	·11	15·62
1886.	·23	·13	·53	1·59	1·78	2·93	3·12	1·86	1·46	·63	·27	·12	14·65
1887.	+·07	·29	·76	1·72	1·79	3·68	3·76	2·54	1·25	·78	·21	·07	16·78
1888.	·07	·37	·48	1·16	2·71	2·24	1·44	1·90	1·17	·60	·43	·03	12·60
1889.	·03	·18	·62	1·07	1·76	2·97	2·34	1·96	1·52	·42	·29	+·13	13·03
1890.	·08	·19	·50	1·44	2·63	2·14	2·33	2·02	1·27	·79	·31	*·04*	13·74
1891.	*·03*	·16	·73	1·35	1·66	2·83	2·34	1·67	1·00	·62	·20	*·22*	12·81
1892.	·05	·09	·60	1·88	2·65	3·05							

MAXIMUM IN EACH MONTH AND YEAR.

1885.	—	·04	·06	·12	·15	·14	·17	·14	·11	·05	·02	·04	·17
1886.	·01	·04	·08	·12	·15	·16	·22	·13	·10	·07	·04	·04	·22
1887.	·04	·05	·06	·11	·14	·23	·18	·16	·08	·05	·05	·02	·23
1888.	·04	·04	·05?	·09	·17	·17	·10	·13	·09	·05	·06	·02	·17
1889.	·02	·04?	·05	·08	·13	·18	·15	·11	·10	·04	·04	·04	·18
1890.	·04	·04	·07	·13	·19	·17	·15	·12	·09	·07	·08	—	·19
1891.	—	·02	·07	·13	·15	·18	·15	·12	·07	·08	·06	·05	·18
1892.	—	—	·06	·12	·19	·17							

There is nothing remarkable in the values for 1891; the latter part of the year being wet, the evaporation was less than usual, and the total for the year is below the average.

DAILY EVAPORATION AT CAMDEN SQUARE, FROM JULY, 1891, TO JUNE, 1892.

Date.	1891. July.	Aug.	Sept.	Oct.	Nov.	Dec.	1892. Jan.	Feb.	Mar.	April.	May	June
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1	·08	·07	·05	·02	·00	02	·00	·02	·01	·05	·05	·13
2	·14	·11	·05	·06	·02	·00	·00	+ ·01	·03	·08	+ ·01	·09
3	·06	·07	·02	·02	·01	·00	+ ·01	·02	·02	·10	·00	·16
4	·07	·03	·04	·03	·01	+ ·01	}	·00	·02	·05	·02	·08
5	·04	·07	·06	+ ·01	·04	+ ·01	} + ·02	·01	·01	·04	·05	·07
6	·09	·05	·04	·03	·01	·01		+ ·01	·05	·08	·09	·15
7	·06	·07	·02	·01	·01	·04		·00	·03	·10	·08	·14
8	·15	·04	05	·01	·01	+ ·01		·00	·02	·09	·08	·14
9	·09	·04	·03	·02	·00	·05		+ ·01	}	·06	·07	·17
10	·09	+ ·01	·05	+ ·01	·04	·03		01	} ·03	·12	·11	·12
11	·12	·12	·03	·01	·06	·03		·01	·01	·10	·14	·11
12	·06	·06	·05	·04	·01	+ ·03	·13	·01	}	·02	·14	·06
13	·09	·08	·01	·03	·00	+ ·02		·01	} ·04	·04	·08	·10
14	·06	·06	·02	·08	+ ·01	·01		·00	·00	·04	·03	·10
15	·11	·10	·02	·06	+ ·02	+ ·01		+ ·04	+ ·02	·02	·08	08
16	·09	·06	·05	·03	+ ·01	·02			·00	·02	·11	·03
17	·10	·04	·02	·02	·00	·00			·02	·01	·09	·11
18	·05	·03	·02	·02	+ ·01	·02	·01	·09	·03	·05	·10	·09
19	·04	·08	·00	+ ·01	·00		·00		·04	·05	·04	·07
20	·06	*(·05)	·01	·01	·02		}		·03	·02	·12	·09
21	·09	+ ·03	·02	01	·01		} + ·01	·02	·01	·06	·13	·08
22	·09	·10	·02	·00	·01		+ ·04	+ ·01	·01	·07	·05	·09
23	·04	·05	·02	·02	·01		+ ·03	+ ·02	·02	·12	·10	·02
24	·06	·04	·02	·02	+ ·01	·05	+ ·02	·00	·01	·09	·11	·11
25	·11	·02	·05	+ ·02	·00		·00	·00	·02	·10	·09	·09
26	·04	·04	·04	+ ·03	·00		·03	·00	+ ·01	·07	·04	·12
27	·06	·06	·07	·03	·01		·01	·00	+ ·02	·03	·08	·16
28	·08	·06	·04	·06	+ ·02		·01	·01	·03	·07	·19	·06
29	·03	·07	·04	·02	·02		·00	+ ·02	·06	·05	·12	·13
30	·04	·02	·04	·03	+ ·02	·02	·00	...	·06	·08	·12	·10
31	·05	·02	..	·01	...	·01	+ ·01	...	·04	...	·15	...
Total	2·34	1·67	1·00	·62	·20	(·22)	(·05)	(·09)	·60	1·88	2·65	3·05

December, 1891, to March, 1892, daily observations at times impossible, owing to frost. * Tank overflowed; amount estimated.

RAINFALL AT THE ROYAL OBSERVATORY, GREENWICH

Lat., 51° 28′ 38″ N. Long., 0° 0′ 0″.

Communicated by W. H. M. CHRISTIE, Esq., M.A., F.R.S.,
Astronomer Royal.

1891	No. of days on which rain fell.	MONTHLY AMOUNT OF RAIN COLLECTED IN EACH GAUGE.							
		Osler's Anemometer		On roof of Octagon Room.	On roof of Magnetic House.	On roof of Photographic Thermometer Shed.	Gauges partly sunk in the ground.		
		Self-registering Gauge.	Second Gauge.						
Height above Ground.	...	50ft. 8in.	50ft. 8in.	38ft. 4in.	21ft. 6in.	10ft. 0in.	5in.	5in.	5in.
Height above Mean Sea Level	...	205ft.	205ft.	193ft.	176ft.	165ft.	155ft.	155ft.	155ft.
		in.	in.	in.	in.	in.	in.	in.	in.
January	17	0·740	0·758	1·119	1·223	1·471	1·563	1·582	1·571
February	4	0·060	0·109	0·095	0·094	0·095	0·054	0·055	0·060
March	17	0·978	0·924	1·323	1·711	1·852	2·143	2·084	2·133
April	8	0·480	0·493	0·620	0·691	0·746	0·718	0·722	0·728
May	18	1·643	1·751	2·276	2·521	2·683	2·688	2·669	2·764
June	11	0·541	0·597	0·747	0·929	0·984	0·962	0·955	0·973
July	17	2·400	2·378	2·947	3·262	3·343	3·388	3·362	3·369
August	22	2·658	2·648	3·275	3·538	3·662	3·715	3·609	3·685
September	12	0·377	0·355	0·687	0·775	0·858	0·819	0·808	0·829
October	20	2·793	2·741	3·472	3·966	4·251	4·317	4·333	4·328
November	15	1·296	1·285	1·580	1·787	2·027	2·001	2·074	2·059
December	17	1·056	1·163	1·860	2·088	2·568	2·670	2·670	2·682
Sums	178	15·022	15·202	20·001	22·585	24·540	25·038	24·923	25·181
No. of Gauge	...	1	2	3	4	5	6	7	8

The monthly record terminates at midnight on the last day of the month.
A rainy day is considered to be one on which 0·005 in., or more, is collected in gauge No. 6.
Of the ground gauges 6, 7, and 8, No. 6 is taken as standard, No. 7 is the old monthly gauge, and No. 8 is a gauge added in 1881.

February 25, 1892.

WILLIAM ELLIS,
For the Astronomer Royal.

THE STAFF OF OBSERVERS.

THE mortality and other interruptions due to influenza were so serious during 1891 and the early part of 1892, that we should not have been at all surprised had the number of perfect records quoted in this volume proved to be considerably less than that in previous volumes.

Another cause which led us to expect a decrease was the fact that there was considerable response to our request, that all observers whose gauges were not certain to last out the decade, would provide themselves with new ones before January, 1890, and would keep on the old ones (at least during that one year) for comparison. The erection of the new duplicate gauges gave a temporary and artificial increase to our numbers during 1889 and 1890, and as it was certain that several old gauges would be dropped at the end of 1890, or during 1891, the rise would naturally be followed by a diminution in 1891.

However, instead of our numbers decreasing as might have been expected, they have not merely kept at the high level reached in 1890, but actually exceeded it.

The explanation of this is afforded partly by the work of the two gentlemen mentioned in the Report, Mr. Stephen Marshall and Major Somerset Maxwell, partly by additions to the already large number of rain gauges on the gathering grounds owned or desired by the corporations of large Yorkshire towns, and partly to that general growth of the Rainfall system which it is our duty to foster.

The summary of what may be regarded as the efficient strength of our observers is as follows :—

Number of perfect rainfall records published in the volumes of British Rainfall for the undermentioned years :—

Years.	England.	Wales.	Scotland.	Ireland.	Gross Total.	Increase over previous year
1860...	163	5	—	—	168	—
1861...	334	9	109	20	472	—
1871 .	1038	88	311	67	1504	—
1881...	1548	131	313	153	2145	31
1882...	1710	145	335	148	2338	193
1883...	1785	145	357	146	2433	95
1884...	1812	143	353	155	2463	30
1885...	1825	161	346	154	2486	23
1886...	1835	155	344	154	2488	2
1887...	1890	164	343	158	2555	67
1888...	1917	161	353	159	2590	35
1889...	2006	163	378	161	2708	118
1890...	2066	172	374	164	2776	68
1891...	2091	168	359	181	2799	23
Difference from 1890—						
Increase	25	—	—	17	23	
Decrease	—	4	15	—	—	

England therefore shows a steady increase, Wales and Scotland a rather serious decrease, and Ireland by far the largest increase for at least ten years.

Some guide to the relative efficiency of the organization is afforded by the number of gauges for each 100 square miles, the following are the figures :—

	England.	Monmouth & Wales, &c.	Scotland.	Ireland.	Total.
Area in Sq. miles..	50,246	8,244	29,820	32,531	120,841
Stations reporting	2,091	168	359	181	2,799
Stations per 100 square miles ...	4·2	2·0	1·2	0·6	2·3

This shows that Scotland and Ireland are still far behind England, for while England has about one observer for each 25 square miles, Scotland has only about one to 80 miles, and Ireland one to 180 square miles.

Moreover it must be remembered that all these assumptions rest upon the (necessarily) false hypothesis of the records in each country being equally distributed in it; unfortunately this is far from being the case.

MIDDLESEX (57).

ABSENT RECORDS.	INSERTIONS.
Twickenham(HolyTrinityVic.)— *Record ceased*	Hampton (Southwark W. W.)
London(LansdowneCres.,W.)—*Observer moved*	Staines.
Chelsea (Carlyle Mansions)—*No reply.*	Twickenham (Strawberry Hill).
Hackney (Richmond Road, N.E.) (2 *gauges*) *Observer dead.*	Chelsea (Pumping Station).
Monken Hadley [Barnet]—*Record ceased.*	Isle of Dogs.
	Acton (Newburgh Road).
	Ealing (St. Stephen's Road).
	Westminster (Spring Gardens).
	London (Old Ford).
	Hornsey (Mount View Road).
	Muswell Hill (Irish Corner).

SURREY (96).

Dorking (Fir Tor)—*Record imperfect.*	Godalming (Charterhouse).
Redhill (Montpellier)—*Record imperfect.*	Bookham Lodge.
Woking (Horsell Vicarage)—*Observer dead.*	Caterham Valley (The College)
Epsom—*Record imperfect.*	Coulsdon Grange.
Chobham (2 *gauges*)—*No reply.*	Banstead (The Larches).
Sutton (Grange Road)—*Record unreliable.*	Windlesham (Erlwood)
Walton-on Thames (Cleveland Lo.)—*Observer moved.*	Weybridge (Field Place).
	Esher (Sewage Works).
	Croydon (Oakfield Road).
	Chertsey (Burley Orchard).
	South Norwood (Whitworth Road).
	Dulwich (Alleyn Park).
	Nunhead (Southwark W. W.).
	Battersea (,, ,,).

KENT (102).

Appledore (Snargate)—*Record imperfect.*	Dymchurch Rectory.
Gowdhurst Vicarage—*No reply.*	Maidstone (Town Malling).
Dover (Pencester Street)—*Record ceased.*	Ash (Pettings House).
,, (Randolph Gardens)—*Record ceased.*	Chatham.
Maidstone (Mote Park)—*No reply.*	
Sevenoaks (Chevening Gardens)—*Record imperfect.*	
Birchington—*Observer dead.*	
Herne Bay (Eddington)—*Observer dead.*	
Sheppey (Greenborough)—*No reply.*	
Sydenham (Longton Grove)—*Record ceased.*	
Eltham (Victoria Road)—*Record ceased.*	

WEST SUSSEX (30).

Arundel (Dale Park)—*No reply.*	Worthing (Infirmary).
Funtington (Ratham)—*No reply.*	Chichester (Forest Side Vic.).
Walderton [Emsworth]—*No reply.*	,, (Watergate Gardens.)
	Midhurst (Borden Wood).
	Horsham (Wimblehurst).

EAST SUSSEX (55).

Hastings (Buckshole)—*Gauge moved.*
Waldron (Heatherden House)—*No reply.*
Burgess Hill (Prescott)—*Record ceased.*

Brighton (Prestonville Rd.) *2nd g.*
,, (W.W. Lewes Road).
Bexhill.
Newick (Beechlands). *2nd g.*

HAMPSHIRE (76).

Shanklin (Bondi)—*Observer dead.*
Ryde (Town Hall)—*No reply.*
Christchurch (South Bourne)—*Observer moved.*
Portsmouth (Fort Cumberland)—*No reply.*
,, (Closewood, Cosham)—*No reply.*
Southampton (Westend)—*No reply.*
,, (Highfield), M.—*Record ceased.*

Bournemouth (Lansdowne Road).
Hambledon (Rosecroft).
Bishop Waltham (Northbrook Ho.)
Alresford (Hinton Ampner).
Stockbridge (Compton Gardens).
Headley (Arford House).
Winchfield (Elvetham Park).

BERKS (28).

Old Windsor (Friary Gardens)—*No reply.*
Twyford (Hurst Grove).—*No reply.*

Bracknell (Warfield).
Wokingham (Binfield Park).
Old Windsor (Beaumont College).
Windsor (Royal Gardens).
Little Wittenham.

HERTS (47).

Hertford(Haileybury College)—*Rec. imperfect.*
Stevenage (Weston Manor)—*Gauge moved..*

Watford (Oaklands.
Hoddesdon (Fieldes Weir).
Tring (Pendley Manor).
Hitchin (Bedford Road).
Buntingford (Hyde Hall).

BUCKS (18).

Wendover (Halton Gardens).
Aylesbury (Mentmore).

OXFORD (31).

Caversham (Kidmore Grange).
Banbury (Sibford Ferris).

NORTHAMPTON (42).

Oundle (Pilton Rectory)—*Record ceased.*

Brackley (East Hill).
Easton Maudit Vicarage.
Northampton (Pytchley Street).
Great Brington.
Hazelbeach.
Welford (Salford House).
Wansford (Apethorpe Lodge).
Peterborough Infirmary.

HUNTS (5)

Wistow—*Record ceased.*

Kimbolton (Covington Rectory).

BEDFORD (20).

Cardington (2 *gauges*)—*Record ceased.*
Bedford (Kimbolton Road)—*Record ceased.*
Podington [Wellingborough]—*No reply.*

Biggleswade (Brooke House).
Potton Vicarage.

CAMBRIDGE (28).

Cambridge (Fulbourne Pumping Station)—*Record imperfect.*
Mepal Engine.
Littleport (Highfield House).

ESSEX (44).

Southend.—*No reply.*
Brentwood (Sawyers Hall Farm)—*Record imperfect.*
West Ham (Abbey Mills).
Havering.
Chelmsford (Broomfield).
Great Bentley (The Lodge).
Dunmow (Saling Grove).

SUFFOLK (39).

Stutton (Alton Hall)—*No reply.*
Ipswich (Playford)—*No reply.*
Swilland Vicarage—*No reply.*
Bury St. Edmunds (Westley) (*old gauge*)—*Record ceased.*
Beccles (Sotterley Hall) (*old g.*)—*Record ceased.*
Ipswich (Belstead Hall).
Kessingland.
Lowestoft (The Clyffe, Corton (*new gauge*).

NORFOLK (62).

Swaffham (Grammar School) (*old gauge*)—*Record ceased.*
Swaffham.—*No reply.*
Scole Rectory.
Drayton.
Cromer (Northrepps).
Holt Lodge.

WILTS (53).

Tisbury—*Record imperfect.*
Warminster—*Record ceased.*
Trowbridge (Lovemead)—*No reply.*
Bradford—*Return not received.*
Great Bedwyn—*Return not received.*
Larmer Grounds [Shaftesbury].
Rushmore [,,].
Market Lavington.
Malmesbury (Charlton Park).

DORSET (31).

Weymouth (Osmington Lodge)—*No reply.*
Lyme Regis—*Record ceased.*
Blandford (Whatcombe) (*old g.*)—*Rec. ceased.*
Corfe Castle (Smedmore).
Weymouth.
Bridport (Downe Hall).

DEVON (85).

Plymouth (Hobart Terrace)—*Observer dead.*
Ashburton (Holne Vic.)(*old g.*)—*Record ceased.*
Teignmouth (Marine Villa)—*Record ceased.*
,, (Woodway)—*Observer dead.*
Princetown—*Record imperfect.*
Ashburton (Widecombe Vic.)—*Record ceased.*
Budleigh Salterton—*No reply.*
,, ,, (E. Budleigh)—*Observer dead.*
Hatherleigh (Winsford)—*No reply.*
Torrington (Stevenstone)—*Observer dead.*
,, (Little Silver)—*Observer dead.*
South Molton—*Return not received.*
Sheepstor (Head Weir).
Exeter (Lyndhurst Road).
,, (Brampford Speke) (*new g.*)
Witheridge (Bradford Cottage).
South Molton (Castle Hill School).
Lynmouth (Glenthorne).

CORNWALL (32).

Truro (Penarth)—*Observer dead.*
St. Austell (Gunheath)—*No reply.*
Liskeard (St. Cleer)—*Record imperfect.*
Callington (Hingston Down) (*old gauge*)—*Record ceased.*
Launceston(South Petherwin)—*Record ceased.*
Falmouth (Kennal Vale).
Cremyll [Devonport].
St. Germans (Catchfrench).

SOMERSET (43).

Milverton (Fitzhead Court)—*Observer dead.*
Exford Rectory—*Observer dead.*
Bridgwater (Ashford)—*No reply.*
Wells (Westbury)—*Observer dead.*
Frome (Rock House, Mells) (*2nd gauge*)—*Record ceased.*
Radstock (Downside)—*Record imperfect.*
Norton St.Philip (Chatley Ho.)—*Record ceased.*
Weston-super-Mare (Kewstoke)—*Rec. ceased.*
Bath (Royal Literary Institute)—*No reply.*
Batheaston (*2nd gauge*)—*Record ceased.*
Taunton (Claremont).

GLOUCESTER (64).

Bristol (Redland)—*No reply*
Coleford (Newland)—*No reply.*
Northleach (Sherborne).—*Return not received.*
Gloucester (Denmark Road)—*No reply.*
Bourton-on-the-Water - *Observer moved.*
Cheltenham (Southam Villa), M—*Gauge moved*
Tortworth Court.
Lydney.
Stonehouse (Haywardsfield).
Whitminster.

HEREFORD (26).

Hereford (Lorraine House)—*Observer moved.*
Ledbury (Colwall)—*Record ceased.*
Ross (Croome Hall).
Bodenham Vicarage.

SHROPSHIRE (25).

Ludlow (Dinham)—*No reply.*
Condover Hall—*Record ceased.*
Shrewsbury(OnslowHall)(*2 gs*)—*Observer dead*

STAFFORD (34).

Wolverhampton (Patshull)—*No reply.*
Leek (Wall Grange) (*old g*)—*Record unreliable.*
Walsall.

WORCESTER (34).

Great Malvern (Hornyold Road)—*No reply.*
,, ,, (Malvernbury)—*Observer moved.*
Tenbury (Stanford Rectory)—*Observer moved.*
Bromsgrove(StokeRefor.)(*old g*)—*Record ceased*
Worcester (Fort Royal).
,, (Belmont Road).
,, Water Works
Droitwich.
Tenbury (Orleton) (2 *gauges*).
King's Heath [Birmingham].

WARWICK (27).

Radway (Ivy Lodge)—*Return not received.*
Snitterfield.
Atherstone.

LEICESTER (21).

Loughborough (Cedar Cottage)—*Record ceased.*
,, (Victoria St.) (2*g*.)—*Gauges moved*
Leicester (Town Hall).

RUTLAND (7).

Oakham (Ashwell Lodge)—*Return unreliable.*

LINCOLN (63).

Wainfleet (Ivy House)—*Return not received.*
Alford (Sutton-by-the-Sea)—*Record ceased.*
Louth (Withcall)—*Record ceased.*
Appleby Vicarage—*Record ceased.*
Ferriby Sluice—*No observations.*
Market Deeping (Wilsthorpe).
Skegness.
Spilsby (Dalby Grange).

NOTTS (39).

Stapleford Hall—*Record ceased.*
Nottingham (Cromwell Street)—*Record ceased.*
Plumtree (Normanton on-Wolds).
Bingham (Whatton Manor).
Nottingham (Basford).
,, (Woodthorpe Grange).
Nuttall.
Bulwell (Bestwood).
Southwell (Oxton Hall).
Papplewick (Waterworks).
Farnsfield.
Mansfield (Market Place).
Retford (W. Retford House).
Worksop (Gateford).

DERBY (39).

Bretby Park [Burton].
Melbourne.
Derby (Midland Railway).

CHESHIRE (65).

Crewe.
Bowdon (Erlesdene).

LANCASHIRE (154).

Liverpool (St. James's Mount)—*Record ceased*
Walton (Breeze Hill) (2*nd g*.)—*Record ceased.*
Manchester (Alexandra Park)—*Return not received.*
Over Darwen (Pickup Bank)—*Record unreliable.*
Oswaldtwistle Waterworks—*No reply.*
Blackpool—*Record unreliable.*
Burnley (Gawthorpe Hall)—*Return unreliable*
St. Michael's-on-Wyre Vic—*Record unreliable*
Lancaster (Southfield)—*Gauge moved.*
Warrington (Training College).
Manchester (Stretford).
St. Helens (Eccleston Hill).
Eccles (Worsley Hall).
Bolton (Halliwell Road).
Rochdale (Nayden Dean).
Southport (Hesketh Park) (*new g*.)
Goodshaw.
Quernmore (Brow Top).
Lancaster (Overton Vicarage).

YORKSHIRE.

WEST RIDING (219).

Meltham (Harewood Lodge) (*old g*)—*Rec. ceased*
Doncaster (Owston), M.—*No observations.*
Honley (Northgate House) M—*Return not recvd*
Wakefield (Walton)—*Gauge moved.*
Bradford (Nan Scar)—*Record imperfect.*
York (Bootham)—*Gauge out of order.*
Harrogate (West End Park)—*Record ceased.*
,, (Service Reservoir)—*No reply.*
,, (Haverah Park Res.)—*No reply.*
,, (Bearer Dyke Res.)—*No reply.*
Skipton (Sandbed Beck, Burnsall)—*Record imp.*
Settle (Ashfield Gardens)—*Record ceased.*
Sheffield (Shrewsbury Hospital).
Greenfield (Chew Mount).
,, (Yeoman Hey).
Meltham (Harden Moss) (*new gauge*)
Wessenden (Holly Bank Moss).
,, (Great Butterley).
,, (Bobus).
Meltham (Royd Edge).
Marsden (Deer Hill) (*new gauge*).
Wakefield (Stanley Grange).
Slaidburn (Middle Knoll).
Harrogate (Bog Valley Gardens).
,,
Ripley Castle.
Ramsgill (Raygill House).
,,
Arncliffe.
Nidderdale (East Gill).
,, (High Riggs).
,, (Rain Stang).
,, (West Houses).
,, (New Houses).
Sedbergh (Brig Flatts).

EAST RIDING (24).

Cottingham—*Record lost.*
Catton Rectory [York]—*Record imperfect.*
Driffield Waterworks.—*No reply.*
Bridlington Quay—*Observer dead.*
Hull (Tranby Park).
,, (Westcott Street).
Beverley (East Riding Asylum).
Malton (Norton).

NORTH RIDING (36).

Oswaldkirk (The Hermitage)—*Record imp.*
Ampleforth College—*No reply.*
Thirsk (Sowerby, Rose Cottage)—*No reply.*
Masham (Burton House)—*Record imperfect.*
Hambleton Hills (High Paradise)—*No reply.*
Guisborough (Lockwood Beck) M.—*Return not received.*
Redcar (Kirkleatham)—*Record ceased.*
Aysgarth (Carperby).
Catterick (Tunstall).
Stanwick Park [Darlington].

DURHAM (38).

Sunderland (W. Hendon Ho.), No. 4—*Rec. imp.*
South Shields (Marsden)—*Observer moved.*
Darlington (Hummersknott).
,, (Brinkburn).
Stockton (Howden House).
Shotley Bridge.
Gateshead (Southdene Tower).

NORTHUMBERLAND (46).

North Shields (Rosella Place)—*Observer dead.*
Morpeth (Bothalhaugh Garden), M.—*Record imperfect.*
Morpeth (Bothalhaugh Lawn) 2 *gs.*
Redewater (Ellis Crag).
Wooler.
Belford (Chatton Vicarage).

CUMBERLAND (72).

Duddon Hall—*No reply.*
Keswick (The Beeches) (2*nd gauge*)—*Return not received.*
Cockermouth (Derwent Ho.)—*Rec. unreliable.*
Scawfell Pike.
Egremont.
Aspatria (Brayton Hall).

WESTMORELAND (34).

Kirkby Lonsdale—*Record ceased.*
Shap (Sleddale Hall)—*Record ceased.*
,, (Swindale)—*Record ceased.*
,, (Copy Hill) (2 *gauges*)—*Record ceased.*
Milburn—*Record ceased.*
Kirkby Lonsdale (Casterton).
Ambleside (Skelwith Bridge).
Mickleden.
Appleby (Castle Bank).

WALES.

MONMOUTH (23).

Llangibby Rectory—*No reply.*
Usk (Glen-hailog)—*Observer dead.*
Rumney (Tredelerch).
Portskewett (Sudbrook).
Newport.
Abersychan.

GLAMORGAN (29).

Cowbridge (The Ham)—*No reply.*
Gower (Pilton Green)—*Return unreliable.*
Swansea (Morriston)—*Record ceased.*
Pontypridd.
Neath (Cadoxton W.W.)

CARMARTHEN (6).

PEMBROKE (6).

Tenby (Manorbier Vic.)—*Record ceased.*
Clarbeston (Penty Park)—*Record imperfect.*

CARDIGAN (4).

Aberystwith (Cwmsymlog)—*Record ceased.*

BRECKNOCK (17).

Crickhowel (Gwernvale)—*Record imperfect.* | Crickhowel (Glanusk Park).

RADNOR (7).

Presteign (Clatterbrune)—*Observer moved.* | Glasbury (Woodlands).

MONTGOMERY (12).

Llanidloes (Broomcliffe)—*Record ceased.*
Caersws (Llanwnog)—*No reply.*

FLINT (7).

| Rhyl Vicarage.

DENBIGH (17).

Eglwys-Bach (Bodnant)—*No reply.* | Penbedw [Nannerch].

MERIONETH (6).

CARNARVON (12).

Clynnog.—*No reply.*
Pen-y-gwryd Hotel.—*No reply.*
Dinorwic Quarry—*Record ceased.*
| Llanbedr-y-Cennin.

ANGLESEA (3).

ISLE OF MAN (11).

St. Mark's—*No observations.* | Bishops Court.
Andreas—*No observations.* | Ramsey.

ISLES OF SCILLY (3).

| St. Mary's.

JERSEY (2).

GUERNSEY (3).

SCOTLAND.

WIGTON (6).

KIRCUDBRIGHT (15).

| Carsphairn (Holm of Dalquhairn).

DUMFRIES (11).

Moniaive (Maxwelton Gardens)—*No observations.* | Moniaive (Glencrosh).
Thornhill (Capenoch Gardens)—*No reply.*

ROXBURGH (11).

SELKIRK (2).

PEEBLES (3).

Innerleithen (The Glen)—*Record imperfect.*
Manor [Glenrath]—*Gauge moved.*
Innerleithen (Runic Cross)—*No reply.*
North Esk Reservoir [Penicuick]—*Rec. imp.*

BERWICK (5).

Duns (Clouds)—*No reply.* | Coldstream (Milne Graden).

HADDINGTON (6).

| Whittinghame Gardens.
| North Berwick (Fidra).

EDINBURGH (28).

Pentland Hills (Harbour Hill)—*Record imp.*
Gilmerton Station—*No reply.*
Edinburgh(CuminPlace)—*Return not received.*
Dalkeith.
Edinburgh (Royal Observatory) (*2nd gauge*).

LINLITHGOW (4).

Linlithgow (Rockville) (*2nd gauge*)—*Rec. imp.*

LANARK (10).

Cleghorn—*No reply.*
Carmichael House.

AYR (17).

New Cumnock (Knockencorsan)*Return not received.*
Old Cumnock—*Observer dead.*
Kilmarnock (North Craig).

RENFREW (26).

Lochwinnoch (Garthlands).

DUMBARTON (6).

Helensburgh (Glenam).

STIRLING (7).

BUTE (4).

Kingarth (The Plan)—*Record imperfect.*

ARGYLL, MAINLAND (21).

Loch Eck (Benmore).
Loch Awe (Ederline).

ARGYLL, INSULAR. (19).

Mull (Earraid)—*Record unreliable.*
Coll (Arnagour Hotel)—*Record ceased.*

CLACKMANNAN (2).

Tillicoultry (Tillicoultry Ho.) (2 *gauges*)—*Record ceased.*

KINROSS (3).

Blairingone [Dollar].

FIFE (10).

Inchkeith—*Record unreliable.*
Isle of May—*Record imperfect.*
St. Andrews(Castle Cliff)—*Return not received.*
Culross (West Grange).
Carnock (Luscar House).

PERTH (23).

Culross (West Grange)—*Transferred to Fife.*
Blairingone [Dollar]—*Transferred to Kinross.*
Dunblane (Kippendavie)—*No observations.*
SheriffMuir(LynnsFarm)—*Gauge out of order.*
Meigle (Arthurstone House)—*Record ceased.*
,, (,, Garden)— ,, ,,
Tulliallan (F. C. Manse).
Pitlochry (Donavourd).

FORFAR (22).

Montrose (Water Works)—*No reply.*
Dundee (Dens Works).

KINCARDINE (4).

ABERDEEN (18).

Cromar(Logie Coldstone, Loanhead)—*No reply*
Inverurie Manse—*Gauge out of order.*
Inverurie (Manor Farm).

BANFF (4).

ELGIN OR MORAY (6).

Craigellachie (Wester Elchies Sch.) (*2nd gauge*)—*Record ceased.*

NAIRN (3).

WEST ROSS (11).

Loch Vraon—*Gauge lost in flood.*
Lochbroom (Loch Drome).

EAST ROSS (7).

WEST INVERNESS (14).

Harris (Island Glass)—*Record imperfect.*
Fort William Observatory.

EAST INVERNESS (5).

Fort Augustus—*No reply.*

SUTHERLAND (7).

Lairg H.R.S.—*Record imperfect.*
Cape Wrath—*Record imperfect.*

CAITHNESS (7).

ORKNEY (9).

SHETLAND (3).

IRELAND.

CORK (5).

Carrigaline (Ravenswood)—*Record ceased.*
Cork (Blackrock)—*Record ceased.*
Fermoy (Gas Works)—*Record imperfect.*
| Blarney (Garrycloyne).

KERRY (9).

| Mangerton.

WATERFORD (5).

Waterford (Newtown)—*Gauge moved.* |

TIPPERARY (6).

LIMERICK (5).

CLARE (6).

| O'Briensbridge (Ross).

WEXFORD (7).

| Wexford (Bann-aboo).

KILKENNY (6).

| Kilkenny (Inch House).

WICKLOW (3).

| Greystones (Knockdolian).

CARLOW (3).

QUEEN'S COUNTY (1).

KING'S COUNTY (2).

KILDARE (1).

DUBLIN (9).

Dublin (Upper Leeson Street)—*No reply.*
| Glenesmoel Lodge.
| ,, (Water Works).

MEATH (4)

| Old Bridge [Drogheda].

WESTMEATH (3).

LOUTH (5).

Louth (Stephenstown)—*Observer dead.*

LONGFORD (1).

GALWAY (11).

ROSCOMMON (1).

MAYO (4).

SLIGO (4).

LEITRIM (1).

CAVAN (14).

Lough Sheelin (Arley) (2 *gauges*).
,, ,, (Fortland).
Virginia (The Lodge).
Bailieboro' (The Laurels).
Stradone House
Cavan (Water Works).
,, (Farnham).
Killeshandra (Castle Hamilton).
Belturbet (Cloverhill).
Bawnboy House.
Dowra.

FERMANAGH (3).

Newtownbutler (Crom Castle).

MONAGHAN (4).

Monaghan.

ARMAGH (3).

DOWN (10).

Castlewellan (Lough Island)—*Rec. unreliable.*
Banbridge(CorbetReservoir).—*Rec.unreliable.*

Holywood Water Works.

ANTRIM (21).

Carrickfergus (Copeland) (2 *gauges*).

LONDONDERRY (7).

TYRONE (7).

Dungannon (Rockdale)—*2nd g. burst by frost.*

DONEGAL (10).

Letterkenny (Glen Alla).

OBITUARY.

WE are very sorry to have by far the heaviest obituary since the publication of *British Rainfall* commenced. The greatest number of deaths previously reported in any year was 54, in 1885, and the average number is about 43 ; against this we have lost since the issue of our last volume no fewer than 65 of our helpers. A great loss which we regret, as regards our work because it has broken several long and useful records, as regards our funds because it has swept away many subscribers, and as regards ourselves because long co-operation makes the loss of a good correspondent like that of a personal friend. Much of this loss was due to the epidemic of (so-called) influenza, and it did even more harm to rainfall work than is shown by the mortality, for it caused the interruption of many a record, and has rendered many observers unfit to continue their work.

The deceased observers, whose records cover at least a quarter of a century, were—

Prof. J.C.Adams,F.R.S.	27 years.	Mr. J. Garnock	31 years.
Dr. G. F. Burder	39 ,,	E. S. Lendon, Esq. ...	26 ,,
His Grace the Duke of Devonshire	42 ,,	Rev. W. A. Paxton.....	29 ,,
		Rev. Canon Woodruff...	26 ,,

Of the age of 25 of the deceased observers I am not aware ; but of the 40 of which I have particulars, fourteen were 80 or upwards, nine were over 85, and four were over 90, again proving that which I have constantly stated as to the general longevity of meteorologists.

OBSERVERS DECEASED TO JULY, 1892.	PERIOD OF OBSERVATION. DATE.	Perfect Yearly Records.
Adams, Prof. J. C., F.R.S., Observatory, Cambridge	C 1864–90 C	27
Airy, Sir G.B., F.R.S., Royal Observatory, Greenwich	1874–80 C	7
Ames, E. L., Esq., Lyme Regis, Dorset	C 1868–90 C	23
Back, Rev. J., Horsell Vicarage, Woking, Surrey	C 1880–90 T	11
Banister, Rev. W., St. James' Mount, Liverpool	C 1877–90 T	14
Bayman, Mr. E., Holmbury, Dorking	1876–91	16
Bell, R., Esq., Chatton Vic., Belford, Northumberland	C 1890 imp –91 T	1
Berry. Mr. L., Water Works Offices, Rotherham	C 1874 imp –91 imp C	16
Bowstead, T., Esq., Edenhall, Penrith	C 1864–69 T	6
Burder, Dr. G. F., Clifton, Bristol	C 1853–91	39
Clark, Dr., Blair, Minehead, Somerset	C 1889–91	3
Clay, J. Travis, Esq., Rastrick, Brighouse, Yorks	1887–91	5
Coppin, J., Esq., Bingfield Ho. Corbridge-on-Tyne.	1874–91 T	18
Cowburn, Major T. B., Dennel Hill, Chepstow	C 1886 imp –91	5
Crossley, L. J,, Esq., Moorside, Halifax	C 1871 imp –76 imp T	4
Davidson, Rev. Dr., Logie Coldstone Manse, Aberdeen	C 1870 imp –91	21
Davies, Mr., Dinorwic Quarries, Carnarvon	C 1882 imp –90 T	8
Devonshire, His Grace the Duke of, Holker, Cartmel	C 1849 imp– 91 C	42
Draffin, Mr. J., North Shore Pavilion, Bridlington Quay	1885–90 T	6
Dugdale, J., Esq,, Water Works Office, Chester	C 1884 imp –90 C	6
Evans, Rev. Canon, The Vicarage, Rhyl, Flint	C 1890 imp –91 T	1
Fortescue, J. C. W., Esq., Stephenstown, Dundalk	1890 T	1
*Garnock, Mr. J., North Esk Reservoir, Penicuick	1860–90 C	31
Gill, H. S., Esq., Exe Villa, Tiverton, Devon	1873–79 imp T	6
Gill, H. S., Esq., Ivy Place, ,, ,,	C 1880–91	12
Goodhart, Rev. C. J. Wetherden Rec. Stowmrkt. Suffolk	C 1869 imp –91	22
Gosset, Rev. I. H., Northam Vicarage, Bideford	C 1865–69 T	5
Hallam, T., Esq., Albert Park, Middlesborough	C 1875–90 C	16
Hammond, J., Esq., Arncliffe, Skipton	C 1881–91	11
Hancock, J. D., Esq., Halse, Taunton	C 1883 imp –90 C	7
Hartnup, J., Esq., Bidston Observatory, Birkenhead	1886–91 C	6
Harcourt, E. W., Esq., Nuneham Park, Abingdon	C 1887–90 C	4
Hathaway, W.H., Esq., Water Works, Banbury, Oxon	1886–90 C	5
Hawksworth, W., Esq., Eddington, Herne Bay, Kent	C 1884 imp –90	6
Heathcote, J.M., Esq., Conington Castle, Huntingdon	C 1865–75	11
James, Rev. J. B., Knowbury, Ludlow, Salop	C 1852–75 T	24
Kesteven, W.B., Esq., M.D., Lansdowne Road, Holloway, N.	C 1867–71 T	5
Kesteven, W.B., Esq., M.D., Chase Side, Enfield, N.	C 1880 imp –81 T	1
Knollys, J. E., Esq., Fitzhead Court, Taunton	C 79 imp –84, 86–90	10
Lawrence, D., Esq. Llangibby Castle, Newport, Mon.	C 1875 imp–85 imp T	9
Lawrence, D., Esq. Porthycarne, Usk, Mon.	C 1885 imp –89 T	4
Lawrence, D., Esq. Glen-hailog, ,, ,,	C 1890 T	1
Lendon, E. S., Esq., Acol, Margate	C 1864–81 imp T	17
Lendon, E. S., Esq., Birchington, Margate	C 1881 imp –90 T	9
Lipscomb, R.H., Esq., Budleigh, Salterton, Devon	1876–90	15
Lipscomb, R.H., Esq., Stevenstone, Torrington, ,,	1880–90	11
Lipscomb, R.H., Esq., Little Silver, ,, ,,	C 1877–90	14
Lucas, Rev. R. G., Mulbarton, Norfolk	1873–90 imp	14
Macguire, J., Esq., Northampton	C 1875–88 T	14

OBSERVERS DECEASED TO JULY, 1892.	PERIOD OF OBSERVATION. DATE.	Perfect Yearly Records.
Manning, R J., Esq., Wells, Somerset	1880–91 T	12
Martin, J., Esq., Wainfleet, Lincolnshire	C 1888 imp –90	2
Mason, T., Esq., Kirkby Stephen, Westmoreland	1870–90 C	21
Miller, Rev. H., Ashbury Vicarage, Shrivenham	C 1870–91	22
Parbury, A., Esq., Bondi, Shanklin, Isle of Wight	1880–90 T	11
Paxton, Rev. W. A., Otterden, Faversham, Kent	C 1858–86	29
Peake, R. W., Esq., Spring Grove, Isleworth	C 1868 imp –89 T	21
Rosling, A., Esq., Wray Park, Reigate, Surrey	1870–91	22
Sanders, R., Esq., Heale House, Littleham, Bideford	1876–91	16
Shiffner, Miss, Ketches, Newick, Lewes	C 1865–78 T	14
Slinn, W. S., Esq , Ampthill, Beds	C 1865 imp –75 T	10
Smith, Rt. Hon. W. H , Greenlands, Henley-on-Thames	C 72 imp–76, 81 imp 90 C	13
Stanton, Genl., The Grove, Hillingdon, Middlesex	1888–90 imp T	2
Stanway, J., Esq., Water Works, Huddersfield	C 1872 imp 90 C	18
Thurtell, W., Esq., Grange Road, Sutton, Surrey	1882-90 T	9
Tripe, J. W., Esq., M.D., Richmond Road, Hackney	C 56 imp–66 T 78–91 imp T	23
Twyman, T. Esq., Renfrew Villa, Margate	C 1877 imp –91	14
Waller, F. A., Esq., Shannon Grove, Banagher	C 75 imp –79, 81 imp–91	14
Westcott, Mr. R., Raby Castle, Darlington	C 1875 imp –82 C	7
Westlake, T., Esq., Fordingbridge, Salisbury	C 1875–91	17
Wilson, Col., Eryl Arran, Bala	1887–90 C	4
Woodruff, Rev. Canon, Wistow, Huntingdon	C 1864–82, 84–90 T	26
Young, Col. Grant, Malvern Wells, Worcestershire	C 1883–84 T	2

NOTE.—C indicates commencement of record and also its continuation, T its termination.

RAINFALL AND METEOROLOGY

OF

1891.

SYMBOLS EMPLOYED.

H.R.S. - -	Highland Railway Station.
H - - - -	Hail.
L -	Lightning.
R - - - -	Rain.
S - -	Snow.
T -	Thunder.
TS	Thunderstorm.
TSS	Thunderstorms.

ON THE METEOROLOGY OF 1891.

WITH NOTES ON SOME OF THE PRINCIPAL PHENOMENA.

[These Notes should be read in conjunction with those on Heavy Rains in 1891].

JANUARY.

2nd.—*Diss* (IV). Fog all day.—*Druid House* (V). Fog all day.—*Ross, The Graig* (VI). Dense fog.—*Eskdale Vicarage* (X). Heavy fog.—*Monmouth, The Hendre* (XI). Dense fog.

3rd.—*Walthamstow* (IV). Dense fog; in afternoon a "silver thaw" set in and all vegetation, roads, &c., were thickly coated with ice. The R fell with a temp. in shade of 32°, and temp. 31°·5 on grass.

3rd—8th.—*Coundon* (VI). S daily.

4th.—*Rendlesham Hall* (IV). Fog and thaw the whole day.—*Melmerby* (X). Helm wind in afternoon.

5th.—*Wyastone Leys* [*Monmouth*] (VI). Heavy S.

6th.—*Canterbury, Harbledown* (II). S 4 inches deep.—*Scourie* (XIX). Two inches of S fell at night, but disappeared on the 8th.

7th.—*Walthamstow* (IV). S 3 inches deep.—*Topsham, Devon.* In the morning the frost was so severe that the mud froze and adhered to the fishing smacks, thus anchoring them to the bed of the Exe; when the tide rose they remained fixed, and were submerged, only the masts remaining visible—and this in *salt water.*

8th.—*Mount View Road, N.* (I). S yielding ·08 in.—*Stronvar* (XVI). Two inches of S.

9th.—*Market Drayton, Old Springs* (VI). Three inches of S.

12th.—*Walthamstow* (IV). Ice on ornamental water in garden 13 inches thick.

13th.—*Bucknall* (VII). Gale and 3 inches of S at night.

17th.—*Canterbury, Harbledown* (II). Heavy S.—*Rendlesham Hall* (IV). Heavy S storms; ·56 in.—*Southport* (VIII). Ice 7·8 in. thick on large lake.

18th.—*Canterbury, Harbledown* (II). S more or less all day.

19th.—*Babbacombe* (V). Min in. Stevenson screen only 14°, the coldest for at least 14 years.—*Nottingham, Beeston Fields* (VII). The Trent frozen over for the second time this winter.

19th and 20th.—*Southport* (VIII). Ground frozen 12 inches deep.

19th—21st.—*Arley* (XXIII). S daily.

20th.—*Selling, Harefield* (II). The long frost broke up with R, and the water being unable to get through the frozen ground caused tremendous floods, such as have not been seen before in the memory of man. A quantity of stock was drowned.—*Canterbury, Harbledown* (II). Heavy R and gale, followed by floods on 21st.—*Ely, Stretham* (III). Ice 9 inches thick on the river Cam. Several persons skated from Denver Sluice to Cambridge, a distance of upwards of 30 miles. —*Alderbury* (V). The first serious thaw after 8 weeks of frost.—*Brattleby* (VII). Ice on pond 10 inches thick.—*Chelford, Astle Hall* (VIII). Blowing hard from S.W. with heavy R, which melting S and running off the frozen ground caused floods.—*Watten, H.R.S.* (XIX). S about 3 inches deep and drifting much.

20th—22nd.—*Stronvar* (XVI). 10½ inches of S in the three days.

21st.—*Rye, Springfield* (II). Heavy S storm and gale, followed by heavy R.—*Ross, The Graig* (VI). Ice 12 to 16 inches thick on the river, breaking up with a 10 feet flood. The river had been frozen over for 30 days.—*Melmerby* (X). Heavy fall of S at night.—*Glenlee* (XII). S 4 inches deep.

22nd.—*Borden Wood* (II). Rapid thaw after 8 weeks of continuous frost.—*Wakefield* (IX). Heavy S, high wind and T and L.—*Kirkland Vicarage* (X). Heavy fall of S.—*Colmonell* (XIV). S 2 inches deep. —*Glasgow, Queen's Park* (XIV). Six inches of S.—*Watten, H.R.S.* (XIX). Gale at night, with showers of S and drift.

23rd—*Walthamstow* (IV). Ground free from S for first time for 59 days. *Chelford, Astle Hall* (VIII). S.W. wind and much R which ran rapidly off the frozen ground, and the streams were in high flood.

30th.—*Miltown Malbay* (XX). S.W. to N.W. gale with H.

31st.—*Crimplesham* (IV). TS with H.—*Edinburgh, Blacket Place* (XIII). Strong southerly gale.

31st—March 7th.—*Upper Clapton, Hadham House* (I). A drought, unparalleled since observations commenced in 1864.

31st—March 9th.—*Weobley, Dilwyn* (VI). Partial drought, ·25 in. of R in 36 days

FEBRUARY.

1st—March 1st.—*Camberley, Heathcote* (II). Continuous drought for 30 days.

1st—March 6th.—*Camden Road, N.* (I). Thirty-four days with only ·01 in. of R; the most remarkable drought in the 17 years recorded.—*Watlington, Pyrton Manor* (III). Total drought of 34 days, only ·02 inch of condensed fog being recorded.—*Oxford, Elsfield* (III). Partial drought for 34 days, with ·02 inch of R.—*Walthamstow* (IV). Thirty-five days with no R whatever.

2nd and 3rd.—*Ben Nevis* (XVIII). Heavy R, 5·52 in.

2nd—March 6th.—*Godalming, Charterhouse* (II). Drought of 33 days.

5th—10th.—*Diss* (IV). Morning fogs.

7th.—*Emsworth, Redlands* (II). Wet mist yielding ·02 in.

8th—28th.—*Weobley, Dilwyn* (VI). Absolute drought for 20 days.

8th—March 1st.—*Wyastone Leys* [*Monmouth*] (VI). Drought of 20 days duration.

9th.—*Scourie* (XIX). Strong gale, followed by heavy R on 10th and 11th.

9th—28th.—*Burton, Shobnall* (VI). Drought for 20 days.

9th—March 5th.—*Pendock Rectory* (VI). Absolute drought for 25 days.

11th.—*Whorlton* (X). Strong S.W. gale.—*Watten, H.R.S.* (XIX). Snowing all day, depth 4 to 5 in.

12th—March 7th.—*Emsworth, Redlands* (II). Absolute drought for 23 days.

17th—22nd.—*Diss* (IV). Fog morning and evening, producing ·01 in. on 4 days.

17th—23rd.—*Colchester, Surrey Villa* (IV). Heavy fogs.

17th—25th.—*Oxford, Magdalen College* (III). Foggy nights.

17th—26th.—*Kensington, Edith Road* (I). Unbroken fog.

18th.—*Berkhampstead, Rosebank* (III). Dense fog, house invisible at 18 yards distance.—*Chelford, Astle Hall* (VIII). Thick fog all day.—*Knutsford* (VIII). Thick fog all day.

18th and 19th.—*Canterbury, Harbledown* (II). Very dense fogs.—*Burton, Derby Road* (VI). Dense fog.—*Derby, Findern* (VII). Thick fog.—*Derby, Elvaston* (VII). Dense fog.

19th.—*Walthamstow* (IV). Remarkable hoar frost, pools of water under every tree when the rime melted.

19th—22nd.—*Ketton Hall* (VII). Fog all day.

20th—25th.—*Peterborough* (III). Mist yielding ·01 in. each day except 23rd.

22nd.—*Walthamstow* (IV). Peculiar hoar frost at 9.15 a.m. when the temp. was 33°; trees above 20 feet high from ground were thickly covered; but below that, none could be seen.

22nd—24th.—*Bloxham Grove* (III). Thick fog.

22nd—26th.—*Dedham, The Rookery* (IV). Fogs yielding ·01 in. each day.

22nd—28th.—*Burton, Derby Road* (VI). Dense fogs at night.

23rd and 24th.—*Maisemore Lock* (VI). Dense fog.

23rd—25th.—*Northampton* (III). Dense fog.

24th.—*Berkhampstead, Rosebank* (III). Dense fog, house invisible at 17 yards distance.

24th and 25th.—*Diss* (IV). Heavy fogs in morning.

25th.—*Maidstone, Mount House* (II). A field with long grass took fire from a man's pipe-light, the whole of the grass was burnt off and some of the quick-set hedge burnt and destroyed; accounted for by the dry month and the frost having previously killed the grass.

28th.—*Berkhampstead, Rosebank* (III). Relative humidity at 3 p.m. only 39.—*Eskdale Vicarage* (X). Dense fog.—*Edinburgh, Blacket Place* (XIII). Moderate W. gale.

MARCH.

2nd.—*Galway, Queen's College* (XXII). Squally with T and L.

2nd and 3rd.—*Watten, H.R.S.* (XIX). N.W. gale with showers of S.

3rd.—*Diss* (IV). Squalls, H, and a heavy W. gale at night.—*Southwell, Grants* (VII). Heavy squall of S at 8.50 a.m. to 9.5 a.m. —*Selkirk, The Hangingshaw* (XIII). One inch of S.

3rd—6th.—*Derby, Elvaston* (VII). Strong W. gales; H and S storms.

4th and 5th.—*Ben Nevis* (XVIII). Heavy S and R, 4·70 in.

5th and 6th.—*Diss* (IV). S.W. gales.

6th.—*Finchley, Etchingham Park* (I). The 34th consecutive day without R.—*Watten, H.R.S.* (XIX). Gale, and 2 inches of S.

6th and 7th.—*Middleton* (XIII). $3\frac{3}{4}$ inches of S in the two days.

7th.—*Mount View Road, N.* (I). R and H at 1.45 p.m., ending the drought which began on January 31st.—*Watten, H.R.S.* (XIX). About 6 inches of S on ground.

7th and 8th.—*Cocksidia* (XI). S and H showers.

7th—14th.—*Arley* (XXIII). Sharp frost.

8th.—*Driffield, York Road* (IX). S fell in the afternoon and night, and at 9 a.m. on the 9th the ground was covered to a depth of 4½ inches. This when taken from the grass and melted in the gauge by the sun, yielded ·34 in. The Snowdon gauge by melting with a hot water bottle placed in the gauge yielded ·35 in.—*Melmerby* (X). Severe helm wind all day, and S showers.

8th—10th—*Newport, Crindau House* (XI). Much S.

9th.—*Mount View Road, N.* (I). N.N.E. gale and heavy fall of S, yielding ·35 in.—*Croydon, Limes Road* (II). Terrific S storm and N.E. gale at night, S ·26 in.—*Brighton, Prestonville Road* (II). N.E. gale and great S storm, followed by S showers on 10th, with a depth on the ground of 4 inches.—*Borden Wood* (II). Easterly gale with fine and dry S, which made drifts from 8 to 10 feet deep.—*Oxford, St. Giles* (III). The blizzard, but not so fierce as that in 1881.—*Towcester, Easton Neston* (III). The depth of S on the ground in a sheltered position was 3 inches.—*Easton on the Hill* (III). S 3 inches deep.—*Walthamstow* (IV). Strong S.E. and E. gale in evening, with blinding S storm; the S very small and powdery, fell for 16 hours and was about 8 inches deep; drifts were many feet deep. Unequalled since January 18th, 1881.—*Bishop's Cannings* (V). About 4 inches of S.—*Hazelbury Bryan* (V). Heavy S; the roads blocked on 10th, and all communication suspended.—*Holne Vicarage* (V). Fearful S storm; the rain gauge 18 inches high was completely embedded in the S.—*St. John's* [*Devonport*] (V). S, H, R and tremendous easterly gale, from 6 to 8.30 p.m.; much damage to trees and houses.—*Bath, Bathwick* (V). S 4½ inches deep, yielding ·67 in.—*Pendock Rectory* (VI). S 8 inches deep.—*Ross, The Graig* (VI). Blizzard from 7.30 to 8.30 p.m.; S 9½ inches deep on both sides of the house, on 10th.—*Ketton Hall* (VII). Strong W. wind and 4 inches of S.—*Brattleby* (VII). S 1¾ inches deep on level.—*Chelford, Astle Hall* (VIII). N.E. gale with S showers.—*Monmouth, The Hendre* (XI). Severe S storm and gale at night; the depth of S in undrifted places slightly over one foot.—*Haverfordwest* (XI). A furious gale toward evening, with blinding S, continuing all night; depth 8 to 10 inches, drifts in some localities as many feet.

9th and 10th.*—*Kensington, Edith Road* (I). N.E. gale and heavy S.—*Camden Road, N.* (I). The greatest S storm recorded in March in 17 years; average depth on the ground on morning of 11th,

* See also *Met. Mag.* April, 1891, pp. 33-40 and 47-48; May, 1891, p. 64.

7½ inches.—*Canterbury, Harbledown* (II). Snowing all day on 9th, and continuing through the night with high N. wind; another heavy fall in the latter part of 10th.—*Keston Tower* (II). Heavy N.E. gale and S storm, with great drifts; average depth about 12 inches.—*Rye, Springfield* (II). Blizzard; S drifts 10 feet deep in places.—*Lewes, Bedford Lodge* (II). S, yielding 1·13 in.—*Emsworth, Redlands* (II). Gale and S drifts 4 to 5 ft. deep, which remained in places till 31st.—*Alton, Ashdell* (II). In the two days 14 inches of S, yielding 1·16 in.—*Lambourne, The Laburnums* (II). The average depth of S was one foot.—*Faringdon, The Elms* (II). Terrific gale and S storm; the gauge was buried in a drift 3 ft. or 4 ft. deep, but the mean of various measurements give a depth of 8 inches on 9th and 5½ inches on 10th.—*Easton Maudit* (III). S on the lawn at 9 a.m. on 10th, 7, 8, and 9 inches deep, and by 2 p.m. 3 or 4 inches more had fallen on paths swept at 9 a.m. I estimated the fall for the two days at ·30 in., judging partly by the running of a little brook, which was dry from the February drought.—*Epping, Hemnalls* (IV). S.—*Poole, Parkstone* (V). S began to fall at 11.45 a.m., and continued till mid-day on 10th, and fell at intervals after; it was mostly fine, but occasionally in large flakes. The wind blew a gale most of the time, and drifts in places in the neighbourhood were 6 ft. to 8 ft. deep. In January, 1881, the depth of S was more than half as much again. —*Bere Regis, Bloxworth* (V). S, yielding 2·95 in.—*Sturminster Newton* (V.) Average depth of S 5 or 6 inches, but in drifts near the gauge, 1 ft. to 6 ft.—*Membland* (V). Heavy S and terrific gale, causing terrible havoc.—*Ivybridge, Langham Hill* (V). The blizzard. To the best of my belief the S never ceased for five minutes from 12 a.m. on the 9th to 12 p.m. on the 10th. The moor (300 feet above the house) was almost clear of S, so was part of the lawn, but there was a drift of 20 feet behind the house.—*Babbacombe* (V). R and S, yielding 2·10 in.; the heaviest S storm since observations commenced in 1876, the average depth of S being 12 inches, and the drifts from 8 ft. to 13 ft. deep.—*Torquay, Watcombe* (V). Heavy S each day, yielding more than 1·00 in.—*Ashburton, Druid House* (V). Blizzard from N.E.; the depth of S could not be measured owing to the great drifts, but on 10th was estimated at 2 ft. 6 in. Many roads remained blocked to the end of the month.—*South Molton, Rose Ash* (V). The S storm began about 2 p.m. on the 9th, and continued all day on 10th, drifting violently from the east.—*Bodmin, Fore Street* (V). A hurricane from E., with S about 8 inches on 9th, and 4 inches on 10th.—

Trelana, Poughill (V). A blizzard from N.E. began at 2 p.m. on 9th, and S continued to fall more or less till 6 p.m. on 10th. The gauge caught very little, but the drift in the drive was 4 ft. to 5 ft. deep.—*Wells* (V). Heavy S and great drifts; all the bye-roads had frequent drifts level with the top of the hedges, and one on the road to Wookey, caused by a house and bank, was reported to be 20 feet.—*Clifton* (VI). S fell with little intermission from 4.30 p.m. on 9th to 7 p.m. on 10th, the average depth being 9 inches.—*Further Barton* (VI). Great S storm, the country roads being blocked in places for a day or two, and S remaining in the ditches till 25th.—*Lower Barton Street* (VI). The greater part of the S fell during the night of 9th and early morning of 10th, but the fall continued without cessation till after 9 a.m. on 10th.—*Much Marcle, Homme House* (VI). Severe blizzard began about 9 p.m. on 9th, and continued till noon on 10th.—*Llanfrechfa Grange* (XI). About 8 inches of S; much drifted, and roads blocked.—*Llanvihangel Court* (XI). N. to E. gale and heavy S.

9th—11th.—*Finchley, Etchingham Park* (I). S daily, about 6 inches falling on 9th.—*Rothamstead* (III). On the night of the 9th there was a very drifting S storm, and on the 10th and 11th there were also drifting S showers; much was blown out of the gauges, but measurements in various fields indicated a depth of 5 in., and ·42 in. was adopted as the yield of water.—*Woodford, The Harts* (IV). S.—*Exeter Institution* (V). S commenced on 9th, and on 10th was 6 inches deep on even ground, but drifted in places to 20 ft. On the 11th the Exe was frozen over, and the S had so drifted as to block both the Great Western and South Western railways.—*St. Agnes* (V). Depth of S 13 inches.

9th—12th.—*Tavistock, West Street* (V). Severe S storm and blizzard; drifts in some places 30 and 40 feet deep.—*Crewkerne, Bincombe House* (V). Heavy S, with hard gales from E.N.E.

9th—13th.—*Rousdon* (V). Great S storm; S in some places 20 ft. deep; scarcely all melted in six weeks.

10th.—*Edith Road, Kensington* (I). S 5 inches deep, yielding ·45 in., equal to 11 inches of S for one inch of water.—*Camden Square* (I). S 5 inches deep, yielding ·55 in., equal to 9 inches of S for one inch of water.—*Mount View Road, N.* (I). S in garden from 4 to 13 in. deep; a second fall yielded ·28 in.—*Croydon, Limes Road* (II). S at night, yielding ·30 in.—*Edenbridge, Falconhurst* (II). S, yielding 1·00 in.—*Crowborough Observatory* (II). S 6 inches deep, yielding 1·30 in., equal to 5 inches of S for one inch of water.—*Great*

Berkhampstead, Rosebank (III). S 5½ inches deep.—*Abingdon, Culham* (III). Heavy S drifts; roads had to be cut out.—*Bloxham Grove* (III). Six inches of S and blowing hard; great drifts.—*Walthamstow* (IV). A heavy S storm, lasting for 16 hours, from 4 p.m.—*Birchanger* (IV). S 2 inches deep.—*Alderbury* (V). Heavy gale and fall of S; roads blocked with drifts.—*St. John's* [*Devonport*] (V). S all day.—*Bridgewater* (V). S 6 inches deep, yielding ·33 in., equal to 18 inches of S for one inch of water.—*York* (IX). S 5 inches deep, yielding ·31 in., equal to 16 inches of S for one inch of water.—*Chatton Vicarage* (X). Six inches of S.—*Llanvihangel* (XI). S 10 inches deep, yielding ·83 in., equal to 12 inches of S for one inch of water.—*Abernant* (XI). S 14 inches deep.—*Middleton* (XIII). 3¼ inches of S.

10th and 11th.—*Rendlesham Hall* (IV). Heavy S storms.—*Melrose, Abbey Gate* (XII). S 2½ inches deep on 10th and 2 inches on 11th.

11th.—*Walthamstow* (IV). Further heavy S squalls; many lanes filled up to the tops of the hedges.—*Brattleby* (VII). Blinding S squalls.—*Southwell, Grants* (VII). Heavy S storm in afternoon.

12th.—*Walthamstow* (IV). Severe frost; ice formed in night ½ inch thick.

13th.—*Exeter Institution* (V). S 4 inches deep.

14th.—*Stronvar* (XVI). S 2½ inches deep.

14th and 15th.—*Mullingar, Belvedere* (XXI). S.

15th.—*Glendrishaig* (XIV). S, sleet and R all day; 1·20 in.—*Stronvar* (XVI). Three inches of S.—*Ben Nevis* (XVIII). Severe E.S.E. gale, velocity at times over 100 miles an hour, with heavy S drift.—*Hurdlestown* (XX). R and S at night, the hills white next day.

15th and 16th.—*Selkirk, The Hangingshaw* (XIII). S or R nearly the whole of both days; total fall, 2·84 in.

16th.—*Melrose, Abbey Gate* (XII). Very stormy from N.E., with 2·18 in. of R and sleet; the hills white with S.

23rd.—*Glenaladale* (XVIII). S low on the hills.

24th—27th.—*Buncrana* (XXIII). Sleet and H.

25th.—*Middleton* (XIII). Two inches of S.—*Stronvar* (XVI). Two inches of S.—*Glenaladale* (XVIII). S down to the water's edge.—*Drumnadrochit* (XVIII). S 2 inches deep on the ground.

25th and 26th.—*Diss* (IV). S.W. gale, and a sharp TS on the latter day.—*Miltown Malbay* (XX). Northerly gale with S and H.

25th—27th.—*Galway, Queen's College* (XXII). Squally, with showers of S and sleet.

26th.—*Canterbury, Harbledown* (II). Two violent H showers, T and L once.—*Erith, Crossness* (II). T, L, R and S at 2.15 p.m.—*Walthamstow* (IV). Sharp TS at 2 p.m., accompanied by H and S.—*Burton, Derby Road* (VI). Gale from W. with S and H showers.—*Brattleby* (VII). A perfect hurricane.—*Southwell, Grants* (VII). Heavy squalls; S and T.—*Chelford, Astle Hall* (VIII). Very strong cold N.W. wind with heavy S in afternoon and during most of the 27th; depth on ground 2 inches.—*Castle Lough* (XX). The heaviest fall of S of the winter, in fact almost the only S which covered the ground.—*Hurdlestown* (XX). Ground white with S.—*Currygrane* (XXI). Heavy S showers all day.

26th.—*Boscastle, Cornwall.* Two shocks of earthquake were felt about noon, at an interval of about two minutes. A shock was felt also at Godstone in Surrey at 4.20 p.m.

26th and 27th.—*Arley* (XXIII). H and S showers.

27th.—*Canterbury, Harbledown* (II). Thick S.—*Epping, The Hemnalls* (IV). T, R and S.—*St. John's* [*Devonport*] (V). T and H.—*Knutsford* (VIII). An inch of S.

29th.—*Northampton* (III). T and L.

APRIL.

1st.—*Nottingham, Beeston Fields* (VII). Frost sufficient to cover ponds with ice.—*Seathwaite Vicarage* (VIII). S which remained on the fells in patches till the end of the month.

1st—6th.—*Ben Nevis* (XVIII). An E.S.E. gale set in at 9 p.m. on 1st, and blew with a mean velocity of 86 miles per hour till 10 a.m. on 6th. Little S fell, but the drift was very heavy, there being over 3 ft. of S on the hill.

3rd.—*Llanvihangel Court* (XI). S on the ground in early morning.—*Glendrishaig* (XIV). Stormy with S and R, 1·82 in.

3rd—6th.—*Melmerby* (X). Helm wind.

4th.—*West Bromwich* (VI). In an hour and a half ·37 in. of R fell.—*Mobarnane* (XX). In 30 minutes ·32 in. of R fell, and in 15 minutes ·20 in.

5th.—*Burton, Derby Road* (VI). T and L.—*Hoar Cross* (VI). Very vivid L and loud T at 3.15 p.m., and ·44 in. of R in 15 minutes.

6th.—*Oxford, Magdalen College* (III). Heavy TS in afternoon.—*Oxford, St. Giles* (III). Remarkable storm, T, L, R and H very severe and abundant from 3.40 to 4.10 p.m., hardly touching North Oxford and heaviest about a mile to the west. Temp. fell 15°.—*Easton*

Maudit (III). From March 17th to April 3rd there had been but ·21 in. in S showers; on the night of April 4th there fell ·66 in., and during the 5th ·05 in., yet on the 6th the Nene valley at Castle Ashby station was under water.—*Ross, The Graig* (VI). TS about 1 mile distant.—*Monmouth, The Hendre* (XI). TS.

8th.—*Knutsford* (VIII). S all the morning.

10th.—*Canterbury, Harbledown* (II). S showers.

12th.—*Kensington, Edith Road* (I). Intense darkness, like night, 4 to 5 p.m.

28th.—*Watten, H.R.S.* (XIX). N.W. gale with H and S.

MAY.

1st.—*Diss* (IV). Heavy gale, T and S.

1st and 2nd.—*Glenaladale* (XVIII). S on the hills.

2nd.—*Diss* (IV). Sharp TS at midday.

5th.—*Glen Alla* (XXIII). Slight S.

10th.—*Canterbury, Harbledown* (II). Dark and damp with fog all day, slight T and L at night.

11th—13th.—*Angmering* (II). Unusual heat.

12th and 13th.—*Crewkerne, Bincombe House* (V). Cloudless and hot. Max. temp. 77°.

12th—20th.—*Lochmaddy* (XVIII). Exceedingly cold, with a good deal of S.

13th—15th.—*Douglas, Victoria Road* (XI). N. gale with H and S.

13th—19th.—*Drumnadrochit* (XVIII). S and sleet daily, the heights above 800 feet being white all day; wind E. or N.

15th.—*Broxbourne* (III). T and H.—*Rendlesham Hall* (IV). T, H and R.—*Ashburton, Druid* (V). S on Dartmoor.—*Loughborough* (VII). T, S and H.—*Chelford, Astle Hall* (VIII). TS in afternoon with much H, the H stones being larger than peas.—*Knutsford* (VIII). T, S and H. —*Rochdale, Fieldhead* (VIII). In 7 minutes ·10 in. of R fell.— *Meltham, Harewood Lodge* (IX). Severe TS at 4.15 p.m.; balls of soft H more than half-an-inch in diameter, L reddish-violet.—*Wakefield* (IX). Squally, with T, L, H, R and S.—*Knaresborough, Farnham* (IX). T, L and H.—*Thirtleby, Sutton, E. Yorkshire.* Two farm labourers were struck by L while in a cart; one was stunned, the other killed.

15th and 16th.—*Godalming, Witley* (II). T.S with H on the former, and the ground and trees white with S on the latter day.—*Whorlton* (X). S.—*Killiney, Cloonevin* (XXI). Heavy H and S showers.

15th—17th.—*Kington, Eywood* (VI). S.—*Waltham-le-Wolds* (VII). S. —*Macclesfield* (VIII). S.—*Macclesfield, Swanscoe Park* (VIII). S.

15th—18th.—*Rhiwbryfdir* (XI). S.

15th—30th.—*Kensington, Edith Road* (I). Sixteen consecutive rainy days.

16th.—*Godalming, Witley* (II). S.—*Hastings, High Beech* (II). S. —*Borden Wood* (II). Severe frost; shoots of ash and chestnut killed. —*Alresford House* (II). H and S.—*Upminster Hall* (IV). T and H.— *Diss* (VI). Heavy H storm, with S and T in afternoon.—*Pembridge, Marston* (VI). S storm.—*Cheadle, The Heath House* (VI). Almost continuous S from 3.30 a.m. to 2.30 p.m.—*Southwell, Grants* (VII). Storms of S.—*Wakefield* (IX). Slight falls of S.—*Ingleby Greenhow* (IX). S.—*Ulpha Vicarage* (X). S.—*Hassness* (X). S.—*Tanyrallt* (XI). Heavy fall of S.—*Glenlee* (XII). S and H showers.—*Melrose, Abbey Gate* (XII). S and H; the hills white.—*The Hangingshaw* (XIII). Ground white with S.—*Edinburgh, Blacket Place* (XIII). S and H showers.—*Lawderdale* (XXII). S.—*Carrablagh* (XXIII). Heavy S and H, and the hills white on 17th.

16th and 17th.*—*Keston Tower* (II). S showers.—*Epping, The Hemnalls* (IV). H.—*Sudbury, Friars Street* (IV). S showers.—*Ludgershall, Conholt Park* (VI). S, H, and sharp frost.—*Hoar Cross* (VI). S.—*Coundon* (VI). S and R.—*Barkby Vicarage* (VII). S.—*Loughborough* (VII). Heavy showers of S and H.—*Waltham-le-Wolds* (VII). S and H.— *Hodsock Priory* (VII). S showers.—*Willington* (VII). S.—*Derby, Elvaston* (VII). Very cold; strong N.E. to N.W. winds, with heavy driving S storms; S lying on the ground and clinging to trees for some hours.—*Knutsford* (VIII). S showers.—*Ormskirk, Rufford* (VIII). S.—*Wath-on-Dearne, Chapel Street* (IX). S.—*Leeds, Elmet Hall* (IX). H and S.—*Hurworth Grange* (X). S.—*North Shields, Tynemouth* (X). S.—*Eskdale Vicarage* (X). S.—*Borrowdale Vicarage* (X). S.—*Borrowdale, Grange* (X). S.—*Uldale Rectory* (X). S showers.—*Newport, Crindau House* (XI). S.—*Crichton Institution* (XII). S.—*Watten, H.R.S.* (XIX). N.W. gale, with S, sleet and R.

16th—18th.—*Crimplesham* (IV). S daily.—*Bylaugh Park* (IV). S, such a fall never seen before in May.—*Crewkerne, Bincombe House* (V). S storms with frost.—*Neath Glyncorrwg* (XI). S and H.

16th—19th.—*Newport, Crindau House* (XI). S and frost.

17th.—*Canterbury, Harbledown* (II). S and H showers.—*Leysdown*

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* See also *Met. Mag.* June, 1891, p. 65–68 and 79–80.

(II). T, L and H.—*Bloxham Grove* (III). Heavy S at night; the ground covered on the morning of the 18th.—*Sibford Ferris* (III). Three inches of S, which lay on the ground till afternoon.—*Sedgebrook* (III). T and L about 11.45 a.m.; heavy H and S storms in afternoon, and heavy S from 7.30 p.m. to 9.45 a.m. on 18th.—*Biggleswade, Old Warden* (III). R and S, ·70 in.—*Ely, Stretham Ferry* (III). Sharp frost, and S one inch deep on the ground for 12 hours from 10 p.m.—*Walthamstow* (IV). Heavy H storm at 5.45 p.m.; it was accompanied by a low blue cloud, rapidly *revolving* underneath the storm and moving from N.E., whilst the storm moved from the N.W. to S.E. The cloud was very low down, and a brilliant blue colour, it twisted and revolved very rapidly and lasted for about 6 minutes. S showers fell during the day.—*Denver Rectory* (IV). S all night, in very large flakes; 2 inches deep on the ground at 7 a.m. on 18th.—*Pickenham Hall* (IV). Deep fall of S.—*Norwich, Carrow House* (IV). Six inches of S at night.—*Norwich, Essex Street* (IV). S 4 inches deep.—*South Walsham* (IV). Melted S yielded ·84 in.—*Minsterley, Hampton Hall* (VI). S 3 inches deep, remaining on the ground all night.—*Bedworth Cemetery* (VI). S.—*Thorpe Arnold* (VII). S.—*Hemingby* (VII). S.—*Brattleby* (VII). Heavy S, in large flakes at 9 a.m.—*Nottingham, Beeston Fields* (VII). Frequent S showers.—*Chelford, Astle Hall* (VIII). The coldest day remembered in May, with heavy S storms.—*Hadfield, Millbrook* (VIII). Heavy fall of S.—*Wray Vicarage* (VIII). S.—*Driffield, York Road* (IX). After a smart shower of soft H and S at 1.15 p.m., the sun suddenly shone brightly on to the cooled surface of the ground and quickly warmed it, when immense clouds of dense vapour arose and drifted rapidly to the S.W.—*Baldersby* (IX). S.—*Scarborough* (IX). Heavy fall of S.—*Monmouth, The Hendre* (XI). S.—*Llanvihangel Court* (XI). S.—*Glendrishaig* (XIV). S on the hills.—*Glen Alla* (XXIII). S.

17th and 18th.—*Broxbourne* (III). S.—*Northampton* (III). Heavy S.—*Diss* (IV). S.—*Blofield* (IV). S 6 in. deep on the level on 18th.—*Glenaladale* (XVIII). S on the hills.

17th–19th.—*Driffield, York Road* (IX). Disastrous frosts, unprecedented mischief to vegetation.

18th.—*Oxford, St. Giles* (III). S showers.—*Daventry, Fawsley* (III). S 5 to 6 in. deep, many branches and trees were broken, and all tender vegetables destroyed.—*Walthamstow* (IV). Coldest May day remembered, max. in shade, 42°.—*Cheltenham* (VI). Two inches of S on the hills.—*Bedworth Cemetery* (VI). Ice 3-16 in. thick.—*Meltham,*

Harewood Lodge (IX). Far the most severe frost in May since the record commenced in 1878. Min. in shade 23°·8, and 19°·8 on grass.

19th.—*Ashburton, Druid* (V). Moors white with S.

19th and 20th.—*Maisemore Lock* (VI). TSS with H.

20th.—*Mount View Road, N.* (I). ·23 in. of R fell in 20 minutes, at 11.25 a.m.

21st.—*Rhiwbryfdir* (XI). L and T.

22nd.—*Tavistock Public Library* (V). TS with H and R, ·89 in. in two hours.

23rd.—*Meltham, Harewood Lodge* (IX). Three distinct currents of air at 7.50 p m. : upper, S. ; middle, N.W. ; lower, E.N.E.

24th.—*Mount View Road, N.* (I). Violent TSS from 5 p.m. to 9.15 p.m. ; ·94 in. of R.—*Finchley, Etchingham Park* (I). Frequent L and T between 4 p.m. and 8.30 p.m.—*Walthamstow* (IV). A heavy TS from 4 p.m. to 9.30 p.m. A good many houses in the district were damaged by L.—*Miltown Malbay* (XX). T and H.

24th and 25th.—*Stainby Rectory* (VII). Continuous heavy R for nearly 48 hours, 1·14 in.

25th.—*Rotherby Hall* (VII). Slight flood.

26th.—*Winchelsea, The Friars* (II). Unusual fall (1·61 in.) with H.

27th.—*Pendock Rectory* (VI). T and H.—*Cheadle, The Heath House* (VI). T L and heavy H.—*Diglis* (VI). Heavy TS.—*Newark, East Stoke* (VII). About 1.40 p.m. a black cloud came up travelling from S. to N., ; heavy R fell for about 10 minutes, followed by H for about 20 minutes, covering the ground to a depth of half an inch, and remaining under walls, &c., unmelted till nightfall, though the temp. was about 60°. One flash of L and clap of T during the H storm. Yield of gauge, ·72 in.—*Rochdale, Fieldhead* (VIII). In 9 mins. ·09 in. of R fell.—*Thixendale* (IX) TS.—*Monmouth, The Hendre* (XI). TS with heavy R.—*Glenlee* (XII.) T and L.

28th.—*Knutsford* (VIII). TS.—*Manchester*. Much damage by L. —A man killed at *Chorlton-cum-Hardy.—Wakefield* (IX). T and L.—*Masborough, Yorks.* House struck by L and much damaged.—*Thixendale* (IX). Heavy TSS.—*Scarborough* (IX.) TS.

29th.—*Reigate* (*Nutwood*) (II). Rainbow seen at 7.45 p.m., remaining visible till 8 p.m., but disappearing by 8.1 p.m.

JUNE.

1st.—*Ben Nevis* (XVIII). E.S.E. gale, 70 to 80 miles an hour.

2nd.—*Canterbury, Harbledown* (II). Thick fog.—*Peterborough* (III).

Heavy TS; a house much damaged.—*Crimplesham* (IV). TS, a cow killed and an oak shattered, ·50 in. of R fell in two hours.—*Burton, Derby Road* (VI). Heavy R, T and L.—*Nottingham, Beeston Fields* (VII). Heavy R, 6 to 7 p.m., with T and L; ·65 in. fell in less than 2 hours.—*Southport* (VIII). Severe TS.—*Wakefield* (IX). T and L.

2nd and 3rd.—*Derby, Elvaston* (VII). Heavy TSS.

2nd—5th.—*Nottingham, Strelley Hall* (VII). During the four days 3·69 in. of R fell, 1·23 in. falling during a TS on 2nd, and 1·34 in. in steady R on 4th.

3rd.—*Cheadle, The Heath House* (VI). Heavy storms from 2 p.m. till 9 p.m., 1·09 in.—*Derby, Findern* (VII). TS, R 1·37 in. between 3.20 p.m. and 4.30 p.m..

4th.—*Northampton* (III). T and L.—*Bradgate* (VII). The greatest R recorded in 24 hours, 2·11 in.—*Rotherby Hall* (VII). R ·95 in. causing a large flood.—*Southwell, Grants* (VII). Heavy R from noon on the 4th to 2 p.m. on 5th; fall to 9 a.m. on 5th, 2·61 in.; this caused the highest flood known here since 1857.—*Mansfield* (VII). R 2·28 in., the greatest fall in one day during 21 years.—*Melbourne, The Grange* (VII). TS, with 1·23 in. of R.

4th and 5th.—*Broxbourne* (III). T.—*Worksop, Gateford* (VII). In 27 hours 1·62 in. of R fell.—*Derby, Elvaston* (VII). Very heavy R; the river Derwent overflowing, the flood doing much damage to mowing crops.

4th—8th.—*Melmerby* (X). Helm wind.

4th—23rd.—*Hartley Wintney* (II). Absolute drought.

5th.—*Ross, The Graig* (VI). TS in afternoon. About 3 miles N.W. of Ross a tremendous downpour occurred, the soil was washed off fields, a wall carried away, &c.; probably 3 or 4 inches of R fell in two hours.

6th.—*Darrynane Abbey* (XX). TS.

14th.—*Rhiwbryfdir* (XI). T and L.

15th.—*Walthamstow* (IV). At 8.15 p.m., one minute before sunset, a splendid double rainbow occurred, and owing to the lowness of the sun it was very large, the colours were strikingly vivid.—*Sudbury, Friars Street* (IV). Severe TS.—*Diss* (IV). Sharp TS.—*Tewkesbury, Beckford* (VI). Between 4.1 p.m. and 4.6 p.m., ·19 in. of R fell.—*Gloucester.* The L struck the spire of St. Nicholas's Church and ignited the roof.—*Ross, The Graig* (VI). TS.—*Much Marcle, Homme House* (VI). Heavy R, ·25 in. fell in 20 minutes.—*Cheadle, The Heath House* (VI). Heavy TS.—*West Retford House* (VII). In 25 minutes

·83 in. of R fell.—*Elvaston* (VII). Heavy R and TS.—*Corwen, Rhug* (XI). TS.

22nd.—*Ash, Pettings House* (II). R 1·75 in. between 5 p.m. and 9 a.m. on 23rd.

23rd and 24th.—*Diss* (IV). Sharp TSS.

24th.—*Oxford, Magdalen College* (III). A heavy TS commenced at noon and lasted a considerable time; some very heavy peals of T occurring.—*Sibford Ferris* (III). During a terrific TS, ·45 in. of R fell in 10 mins.—*Stowell Rectory* (V). TS.—*Wyastone Leys* [*Monmouth*] (VI). Heavy R, 1·38 in. in 2½ hours.—*Ross, The Graig* (VI). Tropical R for 10 mins.; the streets flooded.—*Much Marcle, Homme House* (VI). Heavy TS; ·30 in. of R fell in 25 mins.—*Knutsford* (VII). T and L from 4 p.m. till midnight.—*Hadfield, Millbrook* (VIII). Terrific TS.—*Southport* (VIII). Severe TS in evening and night; L, with little intermission, from 2 p.m. on 24th until 6 a.m. on 25th—*Meltham, Harewood Lodge* (IX). TS 9·45 to 11 p.m. Most brilliant L, but very high up and of yellowish pink colour.—*Rhiwbryfdir* (XI). T and L.—*Corwen, Rhug* (XI). Heavy TS and 1·40 in. of R.—*Killiney, Cloneevin* (XXI). TS and heavy R.

24th and 25th.—*Broxbourne* (III). T.—*Bloxham Grove* (III). Heavy T.—*Further Barton* (VI). TSS.—*Cheltenham* (VI). TSS.—*Macclesfield* (VIII). TSS.—*Walton-on-the-Hill* (VIII). Violent TSS from 5 p.m. on 24th till 7 p.m on 25th.—*Southport* (VIII). Severe TSS.—*Wakefield* (IX). L and T.—*Monmouth, The Hendre* (XI). Severe TSS.—*Llandovery* (XI). Heavy T and L.—*Wrexham, Brymbo* (XI). R 3·51 in.—*Denbigh, Garn* (XI). R 3·19 in.—*Douglas, Victoria Road* (XI). TSS, with very heavy R, 1·45 in.

24th—26th.—*Pendock Rectory* (VI). TSS daily.—*Miltown Malbay* (XX). TSS.

25th.—*Mount View Road, N.* (I). TS in afternoon.—*Winchmore Hill* (I). Exceptionally heavy local storm of R and large H about 3 p.m.—*Castle Ashby* (III). Heavy TS, with 1·25 in. of R.—*Stotfold, Baldock* (III). In 28 mins. ·46 in. of R fell.—*Fulbourne Asylum* (III). Fearful TS with very heavy H.—*Ross, The Graig* (VI). TSS.—*Burton, Derby Road* (VI). Very violent TS, 4.30 to 6.30 p.m.; vivid L; heavy T and R; little H; 1·50 in. of R in 2 hours.—*Hoar Cross* (VI). TL and heavy R 1·14 in.—*Market Drayton, Old Springs* (VI). R began about 6.30 a.m., very heavy at times; total to 9 a.m., 26th, 2·33 in., of which 2·00 in. must have fallen in 24 hours.—*The Heath House* (VI). T, L and heavy R 1·02 in.—*Worcester, Fort Royal* (VI).

Between 8.40 p.m. and 9.45 p.m. ·83 in. of R fell.—*Bedworth Cemetery* (VI). T and L.—*Loughborough* (VII). R 2·27 in., causing great floods; about 2·00 in. fell betwen 4.30 p.m. and 6 p.m.—*Ketton Hall* (VII). T, H and heavy R.—*Stainby* (VII). TS.—*Willington* (VII). Severe TS; between 4.30 and 5.30 p.m. 1·20 in. of R fell.—*Derby, Findern* (VII). TS; R ·80 in. in about an hour.—*Elvaston* (VII). Terrific TS and violent R, 1·50 in. in 2 hours (5 to 7 p.m.)—*Frodsham, Dunsdale* (VIII). T for nearly 24 hours, and 2·10 in. of R.—*Garston, Grassendale Park* (VIII). R 2·40 in., the heaviest fall in one day during 14 years.—*Hebden Bridge* (IX). TS; ·35 in. of R fell in 15 minutes.—*Gower, Penmaen* (XI). Violent TS with 1·06 in. of R.—*New Barnsley* (XXIII). An exceptionally severe TS, with 1·44 in. of R.

INJURY BY LIGHTNING.—Among the injuries by L during June 24th and 25th, we find for June 24th :—*Middlesex.* A cart was struck in the afternoon while being driven across Ealing Common; the men escaped, but the horse was killed.—*Surrey.* A laundry was struck at Wandsworth, and the workwomen were either frightened or actually struck.—*Northampton.* At Oakley, near Kettering, several trees were struck and three oxen killed.—*Shropshire.* At Whitcott, near Clun, five sheep were killed under a holly tree; and at Butt's Farm, Ludlow, six sheep were killed under a tree.—*Warwick.* A factory chimney in Birmingham was demolished.—*Leicester.* A house was struck at Whitwick; a cow was killed at Wartnaby; and a mill was struck at Kettleby, near Melton Mowbray.—*Lincoln.* At Billingborough a cow was killed.—*Cheshire.* A house was struck at Nantwich; a cow was killed at Chorley; and a house struck and four pigeons killed at Crewe.—*Lancashire.* In the evening two men were in a rowing boat on the Mersey; it was struck—one man was disabled and the other killed.—About 11 p.m. a house in Falkener Street, Liverpool, was struck and ignited, as was also the church of St. James in the same city. At night a warehouse in Milnrow, Oldham, was struck, the gas pipes were melted and the gas was lighted at the breach.—*Yorkshire.* A house was struck on Spital Hill, Sheffield.—*Monmouth.* Bona Vista House, near Abergavenny, was struck and much damaged.—*Cardigan.* Cottage struck near Aberystwith and two men killed.—*Flint.* The stables of Castle Hill Brewery, Hawarden, were struck and set on fire.—*Denbigh.* A house at Llangollen was struck and much damaged.

On June 25th the injuries reported include the following :—*Northampton.* At Raunds, near Thrapstone, several trees, and at

Warkton, near Kettering, the Rectory, struck.—*Gloucester.* At Clifton two houses were set on fire by the L melting the gas pipes and igniting the gas.—*Stafford.* A lady was struck at Wolverhampton. —*Leicester.* At Drayton, near Bringhurst, and at East Farndon, near Market Harborough houses were struck, at Saddington, near Market Harborough, a cow was killed ; and at Melton Mowbray, at 5 p.m., stables were struck and the straw ignited.—*Rutland.* At Great Easton, near Uppingham, one bullock and two sheep were killed.—*Derby.* The Church at Doveridge was struck and the roof ignited.—*Lancashire.* The spire of St. Saviour's Schools, Liverpool (which had no conductor), was struck at 10.45 a.m., and (also in the early part of the day) a house was struck at Hollingwood, near Oldham.—*Flint.* A cottage was struck and the roof destroyed at Babel, near Holywell.

26th.—*Whorlton* (X). Heavy R, ·90 in. fell in an hour.—*Dalnaspidal* (XVI). L, H and R.

27th.—*Melmerby* (X). Sharp TS.—*Watten* (XIX). Heavy TS.

JULY.

1st.—*Cheltenham* (VI). Between 2 p.m. and 4.30 p.m., 1·05 in. of R fell.—*Nottingham, Beeston Fields* (VII). Poured with R from 4 to 5 p.m., 1·10 in. fell in 1½ hours.—*Frodsham, Dunsdale* (VIII). R 1·76 in., of which 1·50 in. fell between 4 and 6 p.m.

2nd.—*Stronvar* (XVI). T, L and heavy showers.—*Forres* (XVII). T and L.

3rd.—*Alresford, Ovington* (II). R 1·79 in., only once equalled and never exceeded in 15 years.—*Alresford House* (II). Heavy shower, with T, 1·43 in. of R fell in about three hours. - *Babbacombe* (V). Several TSS, a house struck and much damaged.—*Worcester, Fort Royal* (VI). TS between 3 and 4 p.m., with ·50 in. of R in 15 minutes.—*The Hangingshaw* (XIII). TS.—*Edinburgh, Blacket Place* (XIII). TS 2.55 to 4.22 p.m. with heavy R and H, ·41 in. fell in 9 minutes.

6th.—*Mount View Road, N.* (I). TS and R in afternoon.—*Weybridge, St. George's Lodge* (II). Between 4 and 4.30 p.m. ·26 in. of R fell.—*Erith, Crossness* (II). Very heavy R, 4.30 to 5.30 p.m., ·35 in. fell in three minutes.—*Diss* (IV). Heavy TS.—*Skellingthorpe, Moorlands* (VII). After reading the gauge at 9 a.m. a violent fall of R occurred, ·22 in. falling in 5 minutes by the watch.—*Southwell,*

Grants (VII). TS with heavy R for 5 minutes at 1·45 p.m.—*Southdene Tower* (X). R and large H; ·45 in. fell in ten minutes.

6th—8th.—*Hemingby* (VII). T daily.

7th.—*New Somerby, near Grantham.* House struck and much injured about 3 p.m.—*Stainby* (VII). Heavy TS.—*Southwell, Grants* (VII). TSS.

7th and 8th.—*Upminster Hall* (IV). T and L.

8th.—*Mount View Road, N.* (I). TSS and R at 3.15 p.m., ·12 in. fell in 7 minutes.—*Keston Tower* (II). Between 4 p.m. and 5.15 p.m. ·70 in. of R fell.—*Leysdown* (II). TS.—*Walthamstow* (IV). Six TSS.—*Diss* (IV). Heavy TS.—*Thurcaston* (VII). ·51 in. of R fell in 5 minutes.—*Ketton Hall* (VII). Heavy TS about noon, a tree struck about a quarter of a mile N.W., some of the wood being thrown 150 feet.—*Oakham, Rutland.* During a TS there was so violent a wind that many buildings were unroofed.

8th.—*Middlesex.* At Tottenham High Cross three houses were struck and one was ignited. At West Hampstead a house in Ravenshaw Street was struck and much damaged. At the gardens of the Royal Botanic Society, Regent's Park, a tree was struck at 4.30 p.m. At the Loudoun Road Station on the L. & N.W.R. near Primrose Hill a sewer under the line burst between 4 and 5 p.m. stopping the traffic.—*Kent.* A house at Willisborough near Ashford, was struck and burned to the ground.—*Essex.* A haymaker named Corbey, of Newport, took shelter under a tree which was struck, his clothes were torn into ribbons, but he was taken to the hospital and expected to recover.—*Lancashire.* A mill was struck at Ashton-under-Lyne about 1 p.m. and a house was struck in Waterloo Street, Oldham.

12th.—Three men were working in the afternoon in a field at Ewesley near Sleaford, Lincoln, when one of the three was struck dead, the others were uninjured.

17th.—*Burton, Derby Road* (VI). Two TSS in afternoon, heavy R, T and L.—*Waterford, Brook Lodge* (XX). In about 2 hours ·94 in. of R fell.

17th.—*Warwick.* Near Nuneaton several cows were killed; and in Coventry a chimney was knocked down.—*Yorkshire.* A house at Middlesborough was struck and much damaged about 8 p.m.—*Durham.* A house was struck in Darlington, and a cow killed in the neighbourhood.

18th.—*Galway, Queen's College* (XXII). T and L.

19th.—*Kensington, Addison Gardens* (I). TS, and ·50 in. of R between 0.40 p.m. and 1 p.m.—*Nottingham, Beeston Fields* (VII). TS with H.—*Southwell, Grants* (VII). T and ·40 in. of R between 10 and 11 a.m.—*Harrogate* (IX). TS.

19th.—*Yorkshire.* A horse was killed about 11 a.m. on Holbeck Moor, Leeds, and a house struck in Glebe Road, Middlesborough, about 1 a.m.—*Durham.* The North Eastern Hotel at Spennymoor was struck about 0.30 a.m. and much damaged.

20th.—*Penzance, St. Clare* (V). T and L.

21st.—*Norwich, Essex Street* (IV). TS. The spire of the Church of St. Michael, Coslany, struck and damaged.—*Rochdale, Fieldhead* (VIII). In 5 minutes ·05 in. of R fell.—*Harrogate* (IX). Short heavy TS; fully ·50 in. of R fell in an hour.—*Knaresborough, Farnham* (IX). T, L and H.—*Leden Urquhart* (XVI). During a TS ·70 in. of R fell in 30 minutes.

21st.—*Norfolk.* At West Somerton a barn was struck and set on fire; at Aylsham a stack was struck and ignited; at Lowestoft, between 4 and 5 p.m., a house was struck; at Northrepps, near Cromer, two bullocks were killed; at Hevingham, near Norwich, an ox was killed under an oak; and a house was struck near North Walsham.

22nd.—*Brighton, Prestonville Road* (II). TS.—*Great Berkhampstead, Rosebank* (III). In five minutes ·11 in. of R fell.—*Pyrton Manor* (III). In a TS ·25 in. of R fell in 16 minutes.—*Oxford, Magdalen College* (III). TS.—*Cheltenham* (VI). TS at 1 p.m.—*Bedworth Cemetery* (VI). Heavy T and H.

22nd and 23rd.—*Pendock Rectory* (VI). TSS.

23rd.—*Norwich, Essex Street* (IV). TS.—*Willington* (VII). In 15 minutes ·37 in. of R fell.—*Mickley* (IX). Severe TS.

24th.—*Rochester, Hoo St. Mary* (II). Severe TS, with very large H, only ·03 in. fell here, whilst 2½ miles off nearly 2·00 in. fell. The H did much damage, cutting vegetation into shreds, besides breaking a great quantity of glass, and several objects were struck by L.—*Fulbourne Asylum* (III). Severe TS.

26th.—*Emsworth, Redlands* (II). T and L.—*Alderbury* (V). TS.—*Ashburton Druid* (V). TS in evening and night.—*Penzance, St. Clare* (V). T and L.—*Stowell Rectory* (V). TS.

27th.—*Mount View Road* (I). TS and heavy R at 4.10 p.m.; ·19 in. fell in 7 minutes.—*Croydon, Limes Road* (II). Heavy R, 0·94 in.; L and T simultaneous, a fearful crash at 4.35 p.m.—*Canterbury,*

Harbledown (II). Tremendous R 1·60 in. from 9 a.m. to 11.30 a.m., with T and L.—*Leysdown* (II). TSS all round and 1·22 in. of R.—*Worthing, Heene* (II). Sharp TS with 1·20 in. of R between 7 and 9 a.m.—*Horsham, Wimblehurst* (II). Nearly ·50 in. of R between 7.30 a.m. and 9.30 a.m.—*Brighton, Prestonville Road* (II). TS.—*Lewes, Iford* (II). Extraordinary R, 2·53 in. falling between 7.10 a.m. and 9 a.m.—*Lower Cousley Wood* (II). T and tropical R from 8.20 to 8.55 a.m.; R 1·13 in., of which some had fallen previously.—*Slough, Upton* (III). TS and ·61 in. of R.—At *High Wycombe*, in the afternoon, five young men under a tree were struck and three were killed.

28th.—*Lewes, Bedford Lodge* (II). TS, from 8 a.m. to 10 a.m. 1·69 in. falling in about two hours. A stand prepared for Lewes races was struck and burned to the ground.

29th.—*Mount View Road, N.* (I). Very heavy R between 5.30 p.m. and 5.55 p.m.—*Oxford, Magdalen College* (III). TS.

29th to Aug. 11th.—*Rye, Springfield* (II). Incessant TSS.

30th.—*Tenterden* (II). Severe TS; a fir-tree struck and set on fire by the L.—*Alderbury* (V). TS.—*Cheltenham* (VI). TS; ·41 in. of R fell in 45 minutes.—*Ross, The Graig* (VI). Heavy TS and ·13 in. of R in 15 minutes.—Six bullocks killed under an elm at *Ellingham, Beccles, Suffolk.*

31st.—*Croydon, Limes Road* (II). T and heavy R, 1.55 p.m. to 3.30 p.m., ·74 in.—*Brighton, Prestonville Road* (II). Between 2.11 and 2.31 p.m. ·25 in. of R fell.—*Crimplesham* (IV). Fog bow.

AUGUST.

1st.—*Weybridge, Field Place* (II). Between 3.14 and 3.20 p.m. ·38 in. of R fell.

2nd.—*Hampstead, Branch Hill* (I). Between 7 and 8 p.m. ·46 in. of R fell. The sewer under the North London Railway at Hampstead Heath Station burst.—*Mount View Road, N.* (I). Several TSS and heavy R, ·47 in. falling in 16 minutes ending 7.47 p.m.—*Weybridge, St. George's Lodge* (II). A heavy shower fell between 11 a.m. and noon; at 2.40 p.m. R fell in torrents for less than half an hour, the two falls yielding ·49 in.—*Great Berkhampstead, Rosebank* (III). In 10 minutes ·20 in. of R fell.—*Lowestoft, The Cliffe* (IV). Heavy R, 1·05 in. accompanied by severe T and L.—*Diss* (IV). Heavy TS.

3rd.—*Weybridge, St. George's Lodge* (II). TS and ·52 in. of R.—

Croydon, Limes Road (II). T and L, 3 to 7 p.m.; several people struck and one man killed, by L.—*Sevenoaks, Purleigh* (II). Severe TS with H at 4.30 p.m., large drops of R fell, followed in a few minutes by a tremendous fall of H which lasted about 20 minutes; some H stones measured fully half-an-inch across, and one weighed over ¼ oz., 20 minutes after it fell.—*Keston Tower* (II). TSS and heavy R in afternoon. —*Emsworth* (II). T, L, R and H.—*Rendlesham Hall* (IV). Terrific H storm with T at 2.30 p.m.; the H stones as big as nuts, ·90 in. fell in about half an hour.—*Walsham-le-Willows* (IV). Remarkable H storm, H stones as big as peas picked up an hour afterwards.—*Diss* (IV). Many TSS with H in afternoon and short bright intervals.—*Ketton Hall* (VII). T and heavy R with H.—*Nottingham, Beeston Fields* (VII). Storm of H at 5 p.m. lasting 10 minutes (·10 in. fell) and making the ground white, followed in 20 minutes by a downpour lasting half-an-hour, during which ·08 in. fell.—*Scarborough* (IX). TS.—*Melrose, Abbey Gate* (XII). T and L.—*Stronvar* (XVI). T and L.

3rd.—Much damage by L along the coasts of *Suffolk* and *Norfolk.*

3rd and 4th.—*Broxbourne* (III). T and H.—*Hurdlestown* (XX). T and L.

3rd—5th.—*Upminster Hall* (IV). T daily.

4th.—*Tenterden* (II). Sharp TS, ·20 in. of R fell in 10 minutes and ·08 in. in 3 minutes.—*Alresford House* (II). Heavy shower with T, ·40 in. of R fell in about half-an-hour.—*Great Marlow* (III). Severe TS, a gateway and several trees struck.—*Hillington Rectory* (IV). Heavy R and H, ·83 in. fell in 20 minutes from 3.15 p m.—*Ross, The Graig* (VI). TSS all round.—*Burton, Derby Road* (VI). TS 4.30 to 5.15 p.m., heavy R and H, ·34 in. in ¾ hour.—*Chelford, Astle Hall* (VIII). Sharp TS, with heavy R at 1 p.m.—*Wakefield* (IX). T and L all afternoon.—*Millom, Leyfield House* (X). In 21 minutes ·29 in. of R fell.—*Llanfrechfa Grange* (XI). Heavy T and L all afternoon.—*Rhiwbryfdir* (XI). L, T and sleet.—*Derry Castle* (XX). T, L, H and heavy R.—*Miltown Malbay* (XX). T and L.

4th and 5th.—*Douglas, Victoria Road* (XI). N gale.

5th.—*Leatherhead, Oxshott* (II). TSS, ·34 in. of R fell in 11 minutes at 3.15 p.m., and ·70 in 35 minutes from 5.45 p.m. to 6.20 p.m.—*Brattleby* (VII). TSS.

6th.—*Broadford, Hurdlestown* (XX). Frost at night.

10th.—*Croydon, Limes Road* (II). Heavy TS; heavy R at 0.25 p.m., 0·10 in. in 3 minutes.—*Berkhampstead, Rosebank* (III). In one minute ·05 in. of R fell.—*Ely, Stretham* (III). Heavy TS and 2·05 in. of R.—

Cheltenham (VI). TS and ·18 in. of R in 8 minutes.—*Rochdale, Fieldhead* (VIII). In 1½ minutes ·04 in. of R fell.

10th.—*Surrey.* Cow killed near Croydon.—*Kent.* At Hoath, near Canterbury, a rick was ignited.—*Essex.* Much damage at Colchester; four buildings were struck, one being ignited; also considerable flooding. A boy killed at Horndon-on-the-Hill.—*Wilts.* At Overton, near Marlborough, 47 sheep were killed.—*Lincoln.* Two horses and several sheep killed near Spalding.

13th.—*Rochdale, Fieldhead* (VIII). Very heavy R 2·02 in., causing floods.

SERIOUS FLOODS IN LANCASHIRE.

13th—14th.—The very heavy and continuous rains of the past week have done serious damage in East Lancashire, especially in the district extending from Blackburn to the Darwen Valley and away to Heapey. Low lands near Preston were covered with water, and the Ribble and its tributaries overflowed their banks. At Blackburn the Irwell overflowed, and several mills stopped work. At Bacup two streets were flooded 2 ft. deep, and a corn mill 4 ft. Forest Mill and other mills were temporarily stopped, boiler fires being put out. In the Darwen Valley there was enormous damage. During Thursday night (13th) very heavy rain fell in Darwen, and very great destruction of property occurred. The river Darwen rose 10 ft., and all the fields on its banks were flooded. During the forenoon the water subsided to about 3 ft. or 4 ft. The upper and lower ends of the town suffered most, although in dozens of houses at the foot of the Darwen moors the cellars were flooded. At the upper end of the town between Grimshaw Street and Pilkington Street where the culvert takes a bend, the volume of water was so great as to burst the culvert near a row of houses in Pilkington Street, and at 9 o'clock the walls of some of the houses fell down with a crash, and were rapidly swept away by the stream. At the bottom of Longford Road the water from the Moors came down with considerable force and brought down to Bolton Road loads of dirt and sand, which had to be carted away. The Darwen Company's mill is in the same district, and at 6 o'clock yesterday morning (14th), it was found impossible to work the pumps, in consequence of the quantity of dirt which had been swept into the reservoir. The workpeople to the number of 450 had to remain at home until dinner time, when another effort was made to start the pumps. The Spring Vale end of the Sough tunnel was flooded for over three hours yesterday

morning, and traffic had to be conducted on a single line. The culvert at the side of the tunnel was too small for the water, and at 5.30 the up line to Manchester from Darwen was flooded. In the hilly district of Heapey the rainstorm raged with fury, and houses and mills suffered seriously. Yesterday morning (14th) at 3 o'clock it was found that the embankment about half-a-mile beyond Heapey station was giving way, and the engine drivers were warned. A couple of hours later the swollen brook, which runs beside the highway from Heapey to Chorley, overflowed its banks and forced its way under the railway bridge; this caused the wall to give way and part of the bridge and tons of earth were flung across the rails. The water then rushed across the line and a large volume flowed down the line, and undermined the foundations so seriously that traffic had to be stopped. The first to discover the mishap to the bridge was an engine driver, a couple of waggons being thrown off the track. It was some hours before the traffic could be resumed. A third slip occurred at the bridge, close to Heapey station, but this was not serious. Great damage was done to White Coppice Mills, about three-quarters of a mile from the railway station. The mills, which belong to Mr. A. Eccles, are situate at the bottom of the bank of a large reservoir which feeds the boilers. The top of the bank is nearly level with the roof of the mill. About half a mile further back runs the sluice which carries the surplus water from the Roddlesworth to the Rivington reservoirs of the Liverpool Corporation. This sluice also collects the water from the mountain rivulets along its course. One of these brooks comes down the centre of a particularly deep clough at the Chorley end of the sluice, and early yesterday morning several thousand tons of earth from the hill-side fell into the boiling stream and were carried into the sluice below, completely blocking it. The result was that the dammed up waters rushed over the sluice bank and into the White Coppice Reservoir. The bywash of the lodge proved insufficent to carry off the water, which began to roll over the embankment a yard deep. The flood forced its way into the mills through the windows of the mechanic's shop and swept everything out by the front door. The main body of the stream was then deflected by a wall into the boiler house, which was quickly filled. Eventually the water burrowed its way under the foundations of the mill carrying with it tons of earth. Fortunately a man on duty in the mill went across the dam, and the occupants of the houses were aroused from their sleep and got out of

danger, as were also a number of others who resided along the course of the stream. The water flooded the shed, and spoiled a lot of warp, and some cloth was carried into the road. The stock was fortunately low, but the damage must be great. Low down several bridges which crossed the brook have been carried away and the water which supplies the Dacca Twist Company was so dirty that work had to be stopped. Twice before within a month the valley has been flooded, but not to so serious an extent. On this occasion there can be little doubt that if the flood had continued much longer the embankment of the White Coppice Reservoir would have gone, and the loss of life might have been heavy.

17th.—*Ben Nevis* (XVIII). Heavy S.E. gale; velocity 78 miles between 1 and 2 p.m.

18th and 19th.—*Douglas, Victoria Road* (XI). Strong S.E. gale.

18th—20th.—*Melrose, Abbey Gate* (XII). T and L daily.

19th.—*Mount View Road, N.* (I). TSS in afternoon, ·46 in. of R.—*Finchley, Etchingham Park* (I). L and T at intervals from noon to 5.30 p.m., and a heavy H shower at 0·45 p.m. A house damaged by L in Muswell Hill Road.—*Diss* (IV). Sharp TS in afternoon.—*Stowell Rectory* (V). TS.—*Brattleby* (VII). Heavy TSS.—*Stronvar* (XVI). T and L.

20th.—*Mount View Road, N.* (I). Heavy R, 1·44 in. falling in about 14 hours.—*Edenbridge, Falconhurst* (II). R 1·10 in. between 4 p.m. and 8 a.m.—*Chichester, Westgate* (II). In 5½ hours 1·31 in. of R fell.—*Lewes, Bedford Lodge* (II). TSS and 1·69 in. of R.—*Wadhurst, Lower Cousley Wood* (II). 1·50 in. fell in 17 hours.—*Totland Bay, Wilmington* (II). R 1·93 in., the greatest fall in one day during five years.—*Emsworth, Redlands* (II). R 1·97 in., the heaviest fall in 24 hours since observations commenced in 1884.—*Southampton, Highfield* (II). R 1·63 in., all falling after 1·30 p.m.—*Walthamstow* (IV). S.W. gale, and 1·32 in. of R.—*Penzance, St. Clare* (V). R 2·04 in., of which 1·18 in. fell between 10 a.m. and noon.

21st.—*Mount View Road, N.* (I). 1·58 in. of R fell in the 24 hours ending 4 p.m.—*Brighton, Prestonville Road* (II). Severe TS.—*Berkhampsted, Rosebank* (III). For 21 hours, ending 1 p.m., R fell continuously, 1·50 in.—*Chelford, Astle Hall* (VIII). Heavy TS between 1.15 and 3 p.m.—*Knutsford* (VIII). Heavy TS.—*Edinburgh, Blacket Place* (XIII). TS with very heavy H; ·29 in. fell in 6 minutes.—*Monifieth, Seaview* (XVI). About 1 p.m. ·47 in. of R fell in 17 minutes.

21st.—*Hereford.* Several buildings struck in the City of Hereford and in surrounding villages.—*Fife.* A young man killed under a tree near Inverkeithing.

23rd.—*Emsworth* (II). T and L —*Alderbury* (V). TS.—*West Kirby* (VIII). Very heavy R between 9.15 and 9.45 a.m., ·49 in. falling within an hour.

23rd.—*Sussex.* Uckfield Parish Church struck about 6 p.m.—*Glamorgan.* Two houses struck in Cardiff.

24th.—*Whorlton* (X). Flood on the Tees.—*Miltown Malbay* (XX). Gale, veering from S. to N.W., and 1·80 in. of R.

24th and 25th.—*Lancaster* (VIII). In about 36 hours 4·68 in. of R fell.—*Broughton-in-Furness* (VIII). In 40 hours 4·04 in. of R fell.—*Esthwaite Lodge* (VIII). In 30 hours 4·48 in. of R fell, and in the two days 5·17 in.—*Seathwaite Vicarage* (VIII). R 5·93 in. in the two days, causing floods.—*Skelwith Fold* [*Ambleside*] (VIII). The flood caused by the R of these dates in Langdale lasted longer than, though it did not rise as high as, that of October 1st, 1890, which carried away Skelwith bridge.—*Ulpha Vicarage* (X). Continuous R for 33 hours, 4·95 in.—*Seathwaite* (X). R on 24th 6·14 in., and on 25th 4·10 in., making 10·24 in. in 48 hours.—*Hassness* (X). R 9·16 in., the fall on 24th, 4·85 in., being the greatest recorded in 24 hours.—*Keswick, The Beeches* (X). R 4·17 in. in 36 hours.—*Keswick, Shu-le-Crow* (X). Heavy R commenced at 5.30 p.m. on 24th, and continued till 5 a.m. on 26th, the gauge recording 4·59 in.—*Ambleside, Nook Cottage* (X). R commenced about 3.30 p.m. on 24th and continued till early on 26th, 5·12 in. falling in about 30 hours; the rivers were much flooded, and the steamers ceased running on Windermere being unable to embark passengers.—*Grasmere, Pavement End* (X). R 3·53 in. on 24th and 3·43 in. on 25th; between 6.40 p.m. on 24th and 7.40 a.m. on 25th (13 hours), 2·93 in. fell, and in the 24 hours from 6.40 p.m. on 24th 4·52 in. fell.—*Douglas, Victoria Road* (XI). R from noon on 24th with strong S.W. wind increasing to a furious gale at night, it moderated somewhat on 25th but returned with greater force at night. In 36 hours 2·26 in. of R fell.—*Glendrishaig* (XIV). Heavy R 2·10 in.—*Darrynane Abbey* (XX) 1·41 in of R in 24 hours.—*Lawderdale* (XXII). Very wet, R 2·25 in.

25th.—*Hazelbury Bryan* (V). Strong W.S.W. gale.—*Scarborough* (IX). Gale.—*Llandovery* (XI). R 1·54 in.; very heavy flood.—*Coolkelure* (XX). Heavy S.W. gale, with 1·68 in. of R.—*Hurdlestown* (XX). Severe S.W. gale at night.

25th and 26th.—*Haslemere, Hazelhurst* (II). S.W. gale.

25th—29th.—*Neath, Glyncorrwg* (XI). R 6·76 in. in the five days.

26th.—*Diss* (IV). Heavy S.W. gale.—*Brattleby* (VII). Hurricane, doing immense damage to fruit and corn.—*Whorlton* (X). S.W. gale and very high flood on the Tees.—*Llanfrechfa Grange* (XI). Heavy S.W. gale and 1·27 in. of R, followed by 1·45 in. on 27th with T and L.

26th and 27th.—*Elvaston* (VII). Severe S.W. gale and heavy R.

27th.—*Ross, The Graig* (VI). Ten feet flood on the Wye.

28th and 29th.—*Scarborough* (IX). TSS with H.

29th.—*Cheltenham* (VI). TS.—*Southport* (VIII). L and T, with heavy R and some large H.—*Edinburgh, Blacket Place* (XIII). T and heavy H, temp. fell 11° instantaneously.

30th and 31st.—*Seathwaite Vicarage* (VIII). R 3·21 in. causing floods.—*Douglas, Victoria Road* (XI). S.S.W. gale and heavy R 1·72 in.—*Coolkelure* (XX). Heavy S.W. gale and heavy R.

31st.—*Hartland Abbey* (V). Severe S.W. gale.—*Miltown Malbay* (XX). Strong gale veering from S.W. to N.W.

SEPTEMBER.

3rd.—*Ulpha Vicarage* (X). TS.

4th.—*Lincoln.* Three houses in Brigg struck, two oxen killed; and at Wrawby, corn in the field ignited by L.—*York.* House struck in Hull.

5th.—*Keswick, The Beeches* (X). Heavy R in afternoon and night (1·97 in.) causing another big flood.

6th.—*Old Cumnock* (XIV). In 10 minutes ·23 in. of R fell.

8th—13th.—*Elvaston* (VII). Brilliantly fine and hot; by far the finest weather of the season.

10th—12th.—*Crewkerne, Bincombe House* (V). Cloudless and hot.

12th.—*Lochmaddy* (XVIII). Between 10 p.m. and 7 a.m. on 13th, 1·88 in. of R fell.

13th.—*Stowell Rectory* (V). TS.

14th.—*Diss* (IV). Heavy TS in afternoon.—*Ketton Hall* (VII). T and heavy R; ·29 in. fell in 14 minutes.—*Melrose, Abbey Gate* (XII.) T, L, and heavy R (1·16 in.).

19th—21st.—*Keswick, The Beeches* (X). R 3·34 in. in the 3 days.—*Douglas, Victoria Road* (XI). Extraordinarily continuous R, 3·26 in. in the 3 days.

20th.—*Gorebridge, Middleton* (XIII). Terrible gale and 3·35 in. of R, causing great and destructive floods.—*Fettercairn, Arnhall* (XVII).

R commenced about 10 a.m. on 20th, and fell gently for about five hours; it then increased in volume, and the wind veered to N. and blew a gale at night. At 9.30 a.m. on 21st the rain gauge exhibited 2·75 in.; the R continued a good part of 21st, another 1·22 in. falling, making the fall 3·97 in. for the 48 hours.

20th and 21st.—*Melrose, Abbey Gate* (XII). R 1·60 in., followed by heavy floods, crops, sheep, and bridges being swept away. The Tweed has been known 4 ft. higher, but its tributaries the Gala and Leader have not been so high in living memory.—*Peebles, Kailzie* (XIII). Severe gale of wind and R from N.N.E., 3·40 in. of R falling in 36 hours. The Tweed in itself did not come down in excessive flood until it was swollen by its tributaries, the Lyne, Eddlestone, Leithen, and Gala waters; these all were perfect torrents, washing away roads and bridges, and raising the Tweed to a height that no one remembers before. These streams are all on the left bank of the Tweed; the station here, although on the right bank, appears to have been just on the edge of the heavy R.—*North Esk Reservoir* (XIII). R 5·20 in., and a fearful N.E. gale on the latter day.—*Edinburgh, Blacket Place* (XIII). Whole gale from N.N.E., with 2·30 in. of R.—*Fettercairn* (XVII). In the two days 4·60 in. of R fell, causing very serious floods.—*Ellon, Kermuck* (XVII). Heavy R and floods.

20th—22nd.—*Pawston* [*Coldstream*] (X). R 3·30 in. in the three days.

22nd.—*Oxford, Magdalen College* (III). TS at 2·30 p.m.

26th.—*Alcester, Ragley Gardens* (VI). ·12 in. of R fell in 4 minutes, accompanied by very strong wind.

OCTOBER.

1st.—*Tenterden* (II). In 5 minutes, from 4.35 p.m., ·09 in. of R fell.

5th.—*Ben Nevis* (XVIII). Violent S.E. gale, velocity over 70 miles an hour, from noon on 5th till 7 p.m. on 6th. Greatest velocity, 109 miles in the hour ending 11 p.m. on 5th.

5th and 6th.—*Crewkerne, Bincombe House* (V). A gale, with heavy R; 1·55 in. fell from 2 a.m. on 5th to 9 a.m. on 6th.—*Cheltenham* (VI). R from 6 a.m. on 5th to 6 p.m. on 6th 1·77 in., causing floods.

5th—22nd.—*Pyrton* (III). Eighteen consecutive wet days, with 6·86 in. of R.—*Beaminster Vicarage* (V). During 18 consecutive days, 10·01 in. of R fell.—*Harptree Court* (V). Eighteen consecutive wet days, with 9·07 in. of R.

6th.—*Berkhampstead, Rosebank* (III). In 5 minutes ·15 in. of R fell —*Steeple Aston* (III). Between midnight and midnight 1·98 in. fell, the greatest fall on record.—*Wimborne Minster, Chalbury* (V). Heavy R, 1·12 in.—*Gloucester, Quedgeley House* (VI). Between 10 a.m. and 1 p.m., 1·32 in. of R fell.

6th and 7th.—*Ashburton, Druid* (V). L.—*Llandovery* (XI). T and L.

7th.—*Finchley, Etchingham Park* (I). Very heavy H storm, with L and T, between 11.25 a.m. and noon.—*Weybridge, St. George's Lodge* (II). In one hour, from 11.30 a.m., ·46 in. of R fell.—*Broxbourne* (III). T, H, and R.—*Broughton-in-Furness* (VIII). In 15 minutes ·24 in. of R fell.

9th.—*Ben Nevis* (XVIII). S and sleet, with St. Elmo's fire.

10th.—*Wakefield* (IX). Dense fog at night.

12th.—*Tetsworth, Pyrton Manor* (III). In 10 minutes about ·17 in. of R fell.—*Burton, Derby Road* (VI). TS, with heavy R, H, L, and T.

13th.—*Croydon, Limes Road* (II). Hurricane of wind and R at 3 p.m.; wind S.E.—*Keston Tower* (II). Very heavy S.W. gale.—*Emsworth, Redlands* (II). Violent S.E. to S. gale, with ·62 in. of R. —*Berkhampstead, Rosebank* (III). Mean hourly velocity of wind, between 1 and 6 p.m., 30 miles; direction S.S.E.—*Walthamstow* (IV). Violent S.S.W. gale in afternoon, and torrents of R.—*Bishop's Cannings* (V). Heavy S.W. gale; trees blown down.—*Ashburton, Druid House* (V). Heavy gale, with H and R.—*Crewkerne, Bincombe House* (V). Hard gales from S. to S.W., with TSS.—*Gloucester, Quedgeley House* (VI). Very heavy gale from S.E.; many trees blown down.—*Burton, Derby Road* (VI). Stormy; heavy R at times (·59 in.).—*Hoar Cross* (VII). Heavy H.—*Inverary* (XV). Tremendous gale, with heavy R.—*Dalnaspidal* (XVI). Gale, with R and S. *Cork, Clarence Place* (XX). Great and disastrous gale.—*Glenesmoel* (XXI). R 2·11 in., 1·59 in. falling between 9 a.m. and 3 p.m.

13th and 14th.—*Chelford, Astle Hall* (VIII). Violent gales and heavy R, causing heavy floods on the 15th.—*Keswick, The Beeches* (X). Violent storms of wind and R.—*Oystermouth, Newton* (XI). Violent TSS, and 2·65 in. of R in the two days.—*Haverfordwest* (XI). Gale of exceptional violence; between 2.30 a.m. and 3.30 a.m. occurred a terrific squall, with heavy H and R and vivid L and T.

13th—15th.—*Elvaston* (VII). Heavy S.W. gales and much rain; 14th and 15th, very heavy TSS and H.—*Llandovery* (XI). R 3·85 in.; T and L on 14th.

14th.—*Muswell Hill* (I). Severe H storm from 11.20 a.m. to

11.35 a.m., beginning with a heavy clap of T; R ·64 in.—*Erith, Crossness* (II). TS, with very heavy wind, and vivid L at 5 p.m.—*Oxford, Potlands, Baldon* (III). Severe H storm; some stones as large and round as marbles, which broke many windows and cut pieces out of apples on the trees.—*Castle Ashby* (III). Heavy S.W. gale, recalling the great storm of the same date in 1881.—*West Bromwich* (VI). In an hour and a half ·45 in. of R fell, and in ten minutes ·17 in. fell.—*Nottingham, Beeston Fields* (VII). Strong S.W. wind; T, L, H, and R at mid-day.—*Southwell, Grants* (VII). TS, with heavy R and slight H at mid-day.—*Wakefield* (IX). T and L.—*Whorlton* (X). Gale, with H and T.—*Keswick, The Beeches* (X). Sharp TSS at 9 a.m. and 7.30 p.m., the former accompanied by heavy H.—*Llanfrechfa Grange* (XI). Strong S.W. gale, with heavy T and H storm.—*Radnor, Downton* (XI). Frequent heavy R, and a violent TS at 10.30 a.m.—*Rhiwbryfdir* (XI). L and T.—*Glenlee* (XII). T and L.—*Derry Castle* (XX). L.

14th and 15th.—*Broxbourne* (III). T and H.—*Titley, Eywood* (VI). Heavy R, 2·16 in.—*Burton, Derby Road* (VI). Gale from S.W., with TSS and heavy R at times.—*Hoar Cross* (VI). T.—*Hemingby* (VII). T.—*Derby, Elvaston* (VII). Severe TSS.—*Seathwaite Vicarage* (VIII). L.

14th—16th.—*Llanwrtyd Wells* (XI). Gale, with T, L, H, and heavy R, 4·02 in.

15th.—*Mount View Road, N.* (I). Heavy TS at 11.25 a.m., accompanied by violent squall; ·17 in. of R fell in 6 minutes.—*Muswell Hill* (I). Sharp TS from 11.15 a.m. to 11.30 a.m.—*Emsworth, Redlands* (II). T, L, H and R.—*Walthamstow* (IV). At 11.30 a.m. a hurricane of wind and R, with heavy T and brilliant L.—*Diss* (IV). Heavy TS, with H and squalls from S.E.; seven cottages four miles N. of Diss were fired by L and burnt down.—*Norwich, Essex Street* (IV). Heavy gale and T.—*Alderbury* (V). Great gale; rows of large trees blown down, the damage being confined to a long narrow line a few yards wide.

15th and 16th.—*Ross, The Graig* (VI). High flood on the Wye.

16th.—*Walthamstow* (IV). Very heavy R in night and early morning, ·40 in. fell between 2 a.m. and 7.30 a.m.—*Douglas, Victoria Road* (XI). Terrific S.S.W. gale with unusually high tide; much damage in all parts of the island.

17th.—*Haslemere, Hazelhurst* (II). TS with H.—*Walthamstow* (IV). Between 1 and 2 p.m. a smart H storm, yielding ·03 in. in about as many minutes; ground quite white.

17th and 18th.—*Llandovery* (XI). T, L and H.

18th.—*Seathwaite Vicarage* (VIII). Heavy R, mostly at night, 2·25 in., causing floods.

19th.—*Ashburton, Druid House* (V). Heavy floods; the highest flood on the Dart for many years.

19th—23rd.—*Great Marlow* (III). R 4·75 in. in the 5 days; the wettest period recorded in 12 years.

20th.—*Ben Nevis* (XVIII). S.E. gale, with S and St. Elmo's fire.

21st.—*Maresfield, Forest Lodge* (II). R 1·25 in., 1·03 in. having fallen on the 20th. Floods were heavy and widespread on the low-lying lands.—*Emsworth, Redlands* (II). Squally, with L, H and R.—*Berkhampstead, Rosebank* (III). In five minutes ·09 in. of R fell.—*Ashburton, Druid House* (V). TS.

21st and 22nd.—*Strathfield Turgiss* (II). On the 21st 1·01 in. of R fell, and on the 22nd 1·03 in. The floods ensuing were altogether unprecedented.

22nd.—*Berkhampstead, Rosebank* (III). In 3 minutes ·12 in. of R fell.—*Walthamstow* (IV). R fell for 20 hours continuously, yielding ·56 in. Temp. rose from 47° at 6 p.m., to 59° at 10.15 p.m., and reached 61° in the night. Wind at 6 p.m. N. and light, S.W. gale at 10 p.m.

23rd.—*Walthamstow* (IV). Lea valley flooded for the first time for some years.—*Brattleby* (VII). Floods in divers places, following a wet period.

24th.—*Southwell, Grants* (VII). Fog all day.

24th.—Great floods in parts of Somerset and Gloucester; in the former county about 100,000 acres were under water.

24th to Nov. 7th.—*Blarney, Garrycloyne* (XX). No measurable R for 15 days.—*Kilkenny, Inch House* (XXI). Drought for 15 days.

25th.—*Oxford, St. Giles* (III). Floods at their highest.—*Denver* (IV). The marshes at Welney were flooded by water from Bedfordshire, and continued so up to the 31st.

25th—26th.—*Upminster Hall* (IV). Fog.

25th to 30th.—*Derry Castle* (XX). Fog nightly.

25th to Nov. 5th.—*Ambleside, Skelwith Fold* (X). Twelve rainless days.

NOVEMBER.

9th.—*Abergavenny, Dyne House* (XI). Heavy R began about 5 p.m. and fell nearly all night, 2·19 in. being recorded at 9 a.m. on 10th.

10th.—*Croydon, Limes Road* (II). Heavy R in night, S.E. gale; R between 7 p.m. and 10 a.m. of 11th, 1·10 in.—*Canterbury, Harbledown* (II). Violent gale began at 11 p.m., and continued fiercely till 8 p.m. on 11th.—*Walthamstow* (IV). Violent S. gale with torrential R in evening.—*Cheltenham* (VI). Terrible gale and heavy R.—*Bedworth Cemetery* (VI). Great gale, many trees blown down.—*Brattleby* (VII). Gale from S.W., increasing to a hurricane on 11th.—*Llanvihangel Court* (XI). Very heavy N.W. gale.—*Cork, Clarence Place* (XX). N.W. gale.

10th and 11th.—*Haslemere, Hazelhurst* (II). Storms and floods of R.—*Redhill, Oxford Road* (II). Continuous R 1·55 in.—*Emsworth, Redlands* (II). Violent S.W. gale.—*Headley, Arford* (II). S.E. gale and heavy R, 1·78 in. falling in 15 hours.—*Crewkerne, Bincombe House* (V). Hard gale from S.W. to N.W.—*Douglas, Victoria Road* (XI). Terrific S.S.E. gale, during which the bar. fell from 29·405 in. to 28·401 in.—*Miltown Malbay* (XX). N.W. gale.

11th.—*Kensington, Edith Road* (I). Very heavy gale, S.E. to N.W. with torrents of R.—*Mount View Road, N.* (I). Very violent S.W. gale, with R and the lowest bar. since December 8th, 1886.—*Abinger Hall* (II). Terrible gale and heavy R, many trees blown down.—*Croydon, Limes Road* (II). South gale and heavy R.—*Tenterten, Summerhill* (II). Violent gale, great damage to trees, &c., fir trees all browned by spray from the sea 12 miles distant.—*Hythe* (II). Terrific S.W. gale.—*Keston Tower* (II). Hurricane from S.W. in afternoon, uprooting many old trees and doing much damage.—*Berkhampstead, Rosebank* (III). Mean hourly velocity of wind between 1 and 5 p.m., 34 miles. During the hour ending 3 p.m., 41 miles was recorded, direction W.—*Oxford, Magdalen College* (II). Perfect hurricane from 0.30 to 2.30 p.m.—*Bloxham Grove* (III). Heavy gale from N.N.W., many trees torn up.—*Walthamstow* (IV). Bar. fell to lowest point since Dec. 8th, 1886; hurricane.—*Rendlesham Hall* (IV). Strong S.S.W. gale.—*Diss* (IV). Heavy S. by E. gale.—*Stowell Rectory* (V). Heavy gale, bar. at 8.30 a.m., 28·395 in.—*Further Barton* (VI). Violent gale and very low bar.—*Cheltenham* (VI). A perfect hurricane. Bar. uncorrected 28·192 in. at 11 a.m., and 28·935 in. at 6.40 p.m., a rise of ·743 in. in $7\frac{1}{2}$ hours.—*Burton, Derby Road* (VI). Violent gale from W. and heavy R.—*Stamford, Duddington* (VII). Severe gale, and the Welland in flood; at Yaxley a windmill top, weighing 4 or 5 tons was blown off.—*Hodsock Priory* (VII). Pressure 28·325 in. The lowest recorded since December, 1886.—

Llanfrechfa Grange (XI). Heavy S.W. gale and remarkable fall of the bar.—*Dalnaspidal, H.R.S.* (XVI). Gale with R and S.—*Watten, H.R.S.* (XIX). Storm of wind and R.—*Wexford, Alma House* (XXI). R measured at noon 2·62 in., the greatest fall in 24 hours during 7 years.—*Wexford, Felt House* (XXI). R 2·06 in., the greatest fall in 24 hours during 7 years.

12th.—*Melrose, Abbey Gate* (XII). S on the hills.—*Cork, Clarence Place* (XX). S.E. gale.—*Derry Castle* (XX). Heavy S.E. gale.—*Broadford, Hurdlestown* (XX). Very severe S.E. gale; a large number of rooks' nests blown clean out of the trees, a circumstance not known to have occurred previously.

13th.—*Whorlton* (X). Tees in flood.

13th—15th.—*Athlone, Twyford* (XXI). Fog.

15th and 16th.—*Whorlton* (X). Tees in flood.—*Hurdlestown* (XX). Dense fog.

19th.—*Whorlton* (X). Tees in flood.

23rd and 24th.—*Kilkenny, Inch House* (XXI). Thick fogs and very dark.

24th.—*Glenaladale* (XVIII). S on the hills.

26th.—*Rhiwbryfdir* (XI). Half an inch of S.—*Cocksidia* (XI). S on the mountains.—*Nenagh, Castle Lough* (XX). Hill tops white with S.

26th and 27th.—*Seathwaite Vicarage* (VIII). S.

29th and 30th.—*Elvaston* (VII). Dense fog.

30th.—*Further Barton* (VI). Fog all day.—*Southwell, Grants* (VII). Thick fog all day, clearing suddenly at 8 p.m.

DECEMBER.

6th.—*Derry Castle* (XX). S at night.—*Hurdlestown* (XX). S at night.

7th.—*Brighton, Prestonville Road* (II). S.W. gale, with squalls of R and H.—*Ross, The Graig* (VI). Violent tornado a little before sunrise, with a course about 1 mile long and 100 yards wide; 2 miles N.W. of Ross.—*Llanvihangel Court* (XI). Very heavy squalls, blowing down trees.—*Kilkenny, Inch House* (XXI). Gale, with S and H.

8th.—*Rendlesham Hall* (IV). Strong S.W. gale.

9th and 10th.—*Cheltenham* (VI). Terrible gale.—*Elvaston* (VII). Very stormy; floods in Derwent Valley.

10th.—*Alderbury* (V). Great gale all day.—*Bishop's Cannings* (V). Strong gale.—*Ross, The Graig* (VI). Violent gale; the roads blocked

in all directions by fallen trees.—*Gorebridge, Middleton* (XIII). S 4½ inches deep.—*Galway, Queen's College* (XXII). L and T.

11th.—*Chelford, Astle Hall* (VIII). Violent N.W. gale at night, with R, H, T, and L.—*Knutsford* (VIII). TS at 3 a.m.—*Southport* (VIII). Heavy W. gale, doing considerable damage.—*Edinburgh, Blacket Place* (XIII). S 3 inches deep.—*Watten H.R.S.* (XIX). N.W. gale, with showers of sleet, H, and S.—*Coolkelure* (XX). Heavy S.W. to W.N.W. gale.—*Lawderdale* (XXII). S.

11th and 12th.—*Hemingby* (VII). S.—*Mullingar, Belvedere* (XXI). S.

12th.—*Dorchester* (III). In 40 minutes ·28 in. of R fell.—*Diglis Lock* (VI). Heavy TSS.—*Knutsford* (VIII). S from noon to 3 p.m.—*Broughton-in-Furness* (VIII). S and R, 2·37 in.—*Wakefield Prison* (IX). Heavy gale, with S, H, and R.—*Hebden Bridge* (IX). R 1·53 in., causing a great flood at night, equal in height to that of 1880, but not so high as that of 1866.—*Harrogate* (IX). About an inch and a half of S.—*Thixendale* (IX). Heavy S fall, rapidly melting at night. —*Douglas, Victoria Road* (XI). R for 23 hours, 2·19 in. —*Melrose, Abbey Gate* (XII). S 2½ inches deep.—*The Hangingshaw* (XIII). Seven inches of S.—*Stronvar* (XVI). Four inches of S.—*Coolkelure* (XX). Squally gale, with T and L and 1·80 in. of R.—*Brandondale* (XXI). Heavy R (1·68 in.), followed by great floods on the 13th, the river Barrow rising higher than it had been for 18 years.—*Kilkenny, Inch House* (XXI). Gale, with S and H.

12th and 13th.—*Inver Braan* (XVI). Sleet and S.

13th.—*Edenbridge, Falconhurst* (II). Between 8 and 9 a.m. ·50 in. of R fell.—*Brighton, Prestonville Road* (II). T and L.—*Emsworth, Redlands* (II). T and L at 8 a.m.—*Dorchester* (III). Very heavy R about 8.20 a.m.; the greater part of ·28 in. fell in about 5 minutes. *Bloxham Grove* (III). Tremendous gale; a great number of trees blown down.—*Bishop's Cannings* (V). Strong gale.—*Ross, The Graig* (VI). Very stormy; trees blown down.—*Llanfrechfa Grange* (XI). Heavy S.W. gale all day, and much damage.—*Llanvihangel Court* (XI). Heavy gale, blowing down trees.—*Gorebridge, Middleton* (XIII). Two inches of S.

14th.—*Bloxham Grove* (III). Floods out.—*Ross, The Graig* (VI). Very high flood on the Wye.

15th.—*Stronvar* (XVI). S 6½ inches deep.

15th—26th.—*Leeds, Elmete Hall* (IX). Dense fogs.

17th—25th.—*Leeds, Oliver Hill* (IX). Dense fogs.

18th—25th.—*Horncastle, Bucknall* (VII). Very severe frost.

19th—25th.—*Burton, Derby Road* (VI). Thick fogs, sharp frosts and large accumulation of hoar frost.

20th—25th.—*Kensington, Edith Road* (I). Continuous fog from 4 p.m. on 20th to 6 p.m. on 25th, temp. during this period never reaching 30°.

21st—23rd.—*Glenlee* (XII). Dense fog all day.

21st—24th.—*Ross, The Graig* (VI). Dense fog on 21st extending to about 600 ft above sea level.

21st—25th.—*Basingstoke, Sherborne St. John* (II). Dense fogs full of smoke, settling in rime on the trees; when the rime fell on Christmas day with no wind the sediment of smoke was left quite black and smelling strongly, on the roads.

22nd.—*Mount View Road, N.* (I). Fog and severe frost.

23rd and 24th.—*Oxford, Magdalen College* (III). Thick fog all day.

23rd—25th.—*Bloxham Grove* (III). Very beautiful effect of rime.

24th.—*Mount View Road, N.* (I). Hard frost; very dense fog in evening.—*Walthamstow* (IV). Awful fog in late afternoon; quite impossible to see an inch before one. Trains hours late.—*Douglas, Victoria Road* (XI). Fog in Channel; no mails.

25th.—*Kensington, Edith Road* (I). R fell between 7 and 8 a.m., the temp. being 22°. In some places it froze into a smooth sheet; at others into little balls of ice.—*Finchley, Etchingham Park* (I). Gentle R fell between 9 and 10 a.m., which froze on the ground, the temp. at 10 a.m. being 27°.—*Hersham* (II). The rime that had dropped from a birch tree was between 3 and 4 inches deep, and yielded ·38 in. of water; this is exclusive of what remained on the tree.—*Horsham, Bourne Hill* (II). Men were skating on the Carfax, an open space in the town; all roads were quite impassable for carriages, and almost for pedestrians.—*St. Albans, The Grange* (III). Silver thaw.—*Walthamstow* (IV). Glazed frost or "silver thaw" in morning.—*Nottingham, Beeston Fields* (VII). Frost and heavy rime, weighing trees down.

26th.—*Glenlee* (XII). T, L, and heavy R, 1·07 in.

26th and 27th.—*Miltown Malbay* (XX). L, T, and H.

27th.—*Titley, Eywood* (VI). From 5 p.m. to 8 p.m. constant flashes of L and distant T.—*East Layton* (IX). Much T and L at night.—*Keswick, The Beeches* (X). Vivid L in evening.—*Douglas, Victoria Road* (XI). TS at 7 p.m.—*Edinburgh, Blacket Place* (XIII). L at night.

28th.—*Keswick, The Beeches* (X). Heavy fall of S.—*Melrose, Abbey Gate* (XII). Hills white with S.

OBSERVERS' NOTES ON THE MONTHS.

JANUARY.

I. *Mount View Road, N.* Severe frost until 20th, with only ·28 in. falling as S; mild and wet from 22nd to the close. The coldest January since 1881. Mean temp. 33°·5. Frost on 21 nights.—*Muswell Hill.* The weather up to the 19th was dry, and seven-eighths of the R fell during the last 12 days. · R 4½ per cent. less than the average of 19 years.

II. *Haslemere, Hazelhurst.* Skating off and on for the first three weeks; rainy towards the end.—*Abinger Hall.* For the most part intensely cold, no break in the frost occurring till near the end.—*Wallington.* One of the most extraordinarily cold Januarys on record; from the 1st to the 23rd the min. temp. was only once above the freezing point. Mean temp. 4°·1 below the average.—*Hythe.* Severe frost to the 20th, when a rapid thaw and rise of temp. set in, with R to the end of the month.—*Keston Tower.* The long frost continued, with occasional breaks, to the 22nd, up to which date light N. and N.E. winds and calms prevailed. The last week was mild and rainy. —*Leysdown.* The severe weather continued during the early part, but the thaw finally set in on 23rd, after which there was some bright, genial weather.—*Littlehampton.* Dry and frosty, with E. wind and much sunshine till 21st; strong S. and S.W. winds, with moderate R during the remainder.—*Brighton, Prestonville Road.* Very cold up to the 20th, on which date the long frost, which had prevailed since November 26th, broke up, and the weather became very mild and wet.—*Lewes, Iford.* The long frost of 58 days, which began on November 25th, finally broke on Jan. 22nd.—*Emsworth.* The two-months' frost broke up on 21st, after which gales and strong winds with R prevailed.—*Beaumont College.* The first part seasonable, the second mild and rainy.

III. *Broxbourne.* The frost which set in on November 24th lasted almost continuously till January 22nd.—*Addington.* Frost every night till 23rd, when a thaw set in, and the melting of the S caused a very large flood and great blocks of ice were carried out on to the meadows, and in quantities never before observed.—*Oxford,*

St. Giles. Severe frost from December 7th to January 22nd. Skating on the river for five weeks or more.—*Bloxham Grove.* The frost was persistent till the 23rd, after which there was a considerable amount of R with intervals of pleasant weather.—*Northampton.* R ·30 in. less than the average of 25 years.—*Fulbourn Asylum.* Very wintry till 21st, followed by mild weather with strong winds; S on 7 days.

IV. *Walthamstow.* Severe frost in the first half and S showers frequent; the latter half mild and stormy. R about the average.—*Ipswich, Bishops Hill.* R ·43 in. less than the average. Very cold up to the 20th, then bright generally, with some squalls and R.—*Diss.* Hard winter weather, with some very low temperatures (8° on the 9th and 18th) till the 19th, when a gentle but steady thaw set in and finished the spell of severe frosts and snow, which commenced on November 25th. The ice on the mere was from 7 to 9 in. thick. From 19th to 31st there was very beautiful weather, the R, which was considerable, falling at night.—*Denver.* The cold was great and prolonged. On the 11th, 18th, 19th, 21st and 22nd there was skating on the Ouse, which is a tidal river at Denver.

V. *Bishop's Cannings.* The frost, which had continued with a few temporary intermissions from November 25th, ended on the 22nd. R of the month ·35 in. below the average.—*Hazelbury Bryan.* A very cold, ungenial month; the frost, which lasted with a few hours' interval for 60 days, did not finally break up until the 23rd.—*Babbacombe.* A cold, fine, sunny, rather dry month, with a high bar. and great variations of temp. R daily from 19th to 31st. Cold from 1st to 19th; warm from 23rd to 31st. The shade min. (14°·0) was the lowest since observations commenced in 1876. The extreme range of temp. was the greatest, and the amount of cloud the least, observed in January.—*South Petherton.* Very cold for the first three weeks, frost occurring on 17 nights.—*Stowell Rectory.* Very cold from 1st to 21st, the temp. in shade on 19th falling to 11°·9.

VI. *Further Barton.* The six weeks' severe weather ended on the 19th, the ther. having reached its lowest point on the previous night. The sky was more clear than in December, and but little S fell. The thaw was gradual, but without interruption. The water in a deep well rose 17 feet between the 23rd and 30th.—*Ross, The Graig.* The frost, which had lasted for 59 days, yielded to a S.W. wind on the 22nd. The S continued on the ground for almost five weeks, the longest time remembered, though it never exceeded 7 inches deep. As regards severity, 1860–1 and 1881 far exceeded

this winter, to say nothing of 1838 or 1855; but for continuity it has not been equalled since 1739-40.—*Burton, Derby Road.* R slightly below the average, the coldest January since 1881; mean temp. 2°·6 below the average. Frosts on nights of 17th and 18th, the sharpest (save the one in December, 1890) since January, 1881. The river Trent frozen over from 1st to 24th.—*Hoar Cross.* The water mains are 18 inches below the surface, but in places they were frozen for weeks, and at the thaw many yards were found burst.

VII. *Ketton Hall.* Very cold, with S on the ground up to the 20th, when heavy R fell at night, followed by warmer weather to the close. More sunshine than usual.—*Hemingby.* The mean temp. was very low, and on 5 days the max. did not reach 32°.—*Brattleby.* Very cold and dry; uninterrupted frost to the 20th.—*Southwell, Grants.* Very cold to the 22nd, with frost every night, then mild. S on only two days.—*Hodsock Priory.* The first three weeks were cold and frosty, the last ten days mild. The mean temp. was lower in January, 1879 and 1881, and about the same in 1886 and 1887; the absolute min. also was lower in 1879 and 1881.—*Willington.* The great frost, which set in on November 25th, ended on the 23rd. For these 60 days—

The highest temp. was		45°.
,, lowest	,, ,,	4°.
,, highest daily mean		37°.
,, lowest	,, ,,	11°.
,, mean max.		33°·5.
,, ,, min.		20°·5.

—*Elvaston.* Very dry, with frequent frosts until 20th; afterwards mild and stormy.

VIII. *Seathwaite Vicarage.* A severe month, but nothing like so severe as the winter of 1880–81.

IX. *Driffield, York Road.* Ground covered with S up to the 23rd, with bitter cold weather, temp. falling to 2°·7 on the grass on the 19th; milder weather set in on the 23rd, and continued to the end. —*Thixendale.* Intensely cold during the greater part.

X. *Whorlton.* Very cold, with severe frost till the last week.—*Duddon Hall.* Extremely wintry, especially from 13th to 21st; S on the ground for a long time.—*Ulpha Vicarage.* The first three weeks were unusually severe, but little S fell except on the 8th; the remainder was generally very mild, with some heavy falls of R.—*Keswick, The Beeches.* On the whole fine and bright, and until the 18th very dry.—*Uldale Rectory.* Almost continuous frost, without S

in the first half, the temp., even in the day, rarely rising above 32° : the second half showery.

XI. *Monmouth, The Hendre.* More or less severe frosts prevailed to the 22nd, but from the 20th to the end it rained every day, but one. Rough winds occurred at the end.—*Llanvihangel Court.* Very low temp. up to the 19th, with light airs from N.W. to N.E. ; thence to the end warm, with strong S.W. to W. winds, and R on 20th, 24th, 26th, and 31st.—*Douglas, Victoria Road.* Fine on the whole. Although R was recorded daily from 18th to 30th, it for the most part fell at night, and many of the days were fine and sunny.

XII. *Melrose, Abbey Gate.* Mean temp. 2°·3 below the average, and frost on 30 nights. R ·62 in. below the average. Wind S. or W. on 24 days.

XIII. *Edinburgh, Blacket Place.* Dry, with little S.

XV. *Craigend Castle.* The first half of the month was dry and frosty, the second half cold and wet.—*Inverary, Newtown.* Very pleasant ; unusually dry, with much sunshine.

XVI. *Dollar.* Frosty and dry in the first part, wet and dull after the 20th.—*Stronvar.* Temp. on the whole high ; cold spells from 6th to 10th, and 21st to 23rd ; the last week very mild.—*Coupar Angus.* Mean temp. 2°·1 below the average, and the lowest in January for ten years. R small.

XVIII. *Ben Nevis.* Mist or fog on the summit for 571 hours ; S fell on 22 days. Temp. above 32° for 28 hours ; R 14·20 in.

XIX. *Scourie.* Weather in general very open and mild. Frost, but not intense, occurred on 6 or 7 days.—*Watten, H.R.S.* Fine and open, though variable ; some frosts, but of short duration.

XX. *Darrynane Abbey.* The first part fine, with hard frost ; the latter part variable and mild.—*Tipperary.* Frost in the early part, frequent R in the latter half.—*Derry Castle.* Harsh and frosty, with frequent misty fogs to the 19th. Heavy R and S on 20th and 21st, and thence to the end wet, but mild, with boisterous gales at night. S fell on 5 days, but did not remain long. R 1·10 in. below the average.—*Castle Lough.* Very hard frost in the early part ; the Shannon frozen almost across. The latter part changeable.—*Hurdlestown.* The driest January on record, the R being 1°·64 in. below the average of 6 years. On the whole the month was most favourable.—*Miltown Malbay.* Alternate slight frosts and thaws in the first half ; the remainder rainy and mild. R much below the average.

XXI. *Kilkenny, Inch House.* January opened damp and foggy; frost set in on 3rd and continued uninterruptedly till 10th, and with occasional thaws, until the 19th; the remainder was very wet, cold and stormy.—*Currygrane.* R exceptionally small, though there were a good many wet days.

XXII. *Tuam, Gardenfield.* The first part rather dry, the latter part rather wet.—*Lawderdale.* The first half seasonable and dry, the latter half stormy and wet. S on 6 days.

XXIII. *New Barnsley.* The month opened mild but foggy; frost, with occasional showers of S and sleet prevailed from 4th to 20th, and the remainder was mild and springlike.—*Stewartstown.* More frost and S than for many years.—*Carrablagh.* Mild and very still; S fell on three mornings, once remaining in sunny spots all day.

FEBRUARY.*

I. *Staines.* Although the gauge collected measurable moisture on 9 days, R fell on only 2, the remainder being dew or fog.—*Kensington, Edith Road.* Practically rainless; slight drizzle on 6th, measuring ·01 in., and some moisture deposited by fogs later in the month.—*Kensington, Addison Gardens.* R ·01 in., the result of fogs during the last week.—*Savile Row, W.* No measurable R.—*Mount View Road, N.* Memorable for entire absence of R. The fogs from 18th to 25th yielded moisture ·03 in. This is probably the smallest total in February since 1821.—*Muswell Hill.* Total absence of R, unprecedented during the 19 years observed, the driest month previously being January, 1880, when ·32 in. fell.—*Etchingham Park.* The whole 28 days elapsed without as much as ·01 in. of R being registered on any day.

II. *Godalming, Witley.* Remarkably dry, R only ·03 in., the smallest on record. Three-fourths of the month foggy, with rime.—*Dorking, Holmbury.* No R, only ·06 in. of dew.—*Abinger Hall.* An entire absence of actual R, and of wind, characterized the month. Fogs were unusually prevalent, but many days were very bright.—*Farnham, Seale.* No R fell.—*Wallington.* No R, the small amount recorded (·06 in.) being fog.—*Croydon, Limes Road.* No R during the month. Fog deposited ·04 in.—*Croydon, Oakfield Road.* The ·03 in. registered was condensed fog and moisture.—*East Molesey, Palace Road.* No R, but such thick wet fogs that on three days ·01 in. was

* See also *Met. Mag.*, March, 1891, pp. 17–25 and 31–32.

measured.—*Hythe.* Remarkably dry and fine, with fog and frost throughout.—*Ashford, Bethersden.* No R, but ·04 in. deposited by fogs.—*Ashford, Pluckley.* Practically without R; the ·05 in. collected was dew, &c.—*Maidstone, Mount House.* The whole of the water measured as R, was from fog.—*Selling, Harefield.* No R; ·03 in. registered from fog.—*Canterbury, Burgate Street.* The fall was entirely fog.—*Keston, Heathfield.* Remarkable for extreme dryness; many cottagers could not procure a drop of water without sending over a mile to fetch it.—*Keston Tower.* Notable for stillness of the atmosphere, misty and foggy weather, and absence of R. A good deal of sunshine.—*Leysdown.* Unusually dry and fine, but frequent fogs, sometimes rather dense.—*Beckenham, Foxgrove.* Practically rainless, the few thousandths of an inch recorded being dew.—*Sidcup, Hatherley Road.* R fell on one day only (6th) to the amount of ·02 in., while ·06 in. was the result of wet fog.—*Erith, Crossness.* No R, but a succession of very damp sea fogs.—*Brighton, Prestonville Road.* Remarkably fine and exceedingly dry; R only ·01 in.—*Lewes, Iford.* Bright sunny days, no cloud, and frosty nights, with fog in early morning; ·05 in. recorded from fog.—*Newick, Beechlands.* Remarkable, inasmuch as no R fell.—*Newport, Lugley House.* The driest February ever known.—*Emsworth, Redlands.* Foggy mornings, bright sun by day; frost every night.—*Southampton, Red Lodge.* Only one day on which more than ·01 in. of R fell.—*Headley, Arford.* The driest month on record.—*Alresford, Ovington.* R ·05 in., the least in any month since observations commenced in 1876.—*Heckfield, Park Corner.* The only month in 21 years without any R.—*Beaumont College.* Remarkable for no actual R; ·06 in. of condensed fog.—*Reading, East Thorpe.* No R; the amount measured was fog.—*Maidenhead, Lowood.* No R; fog precipitated ·03 in.

III. *Berkhampstead, Rosebank.* The driest month on record (1856—91). No measurable quantity of R fell, but fog and hoar frost yielded ·05 in.—*Berkhampstead, Fairhill.* Total absence of measureable R. Two days with ·01 in. of fog.—*Throcking Rectory.* R ·01 in., being 1·74 in. below the average. An unprecedentedly dry month. Bright sunshine 103 hours.—*Stony Stratford, Thornton.* R ·01 in., the smallest fall in the month during 22 years.—*Woburn Sands, Sandymount.* R only ·01 in., the least registered in any month in 12 years.—*Culham Vicarage.* No R, but fogs from 22nd to 24th, produced ·05 in.; unprecedented for 40 years.—*Abingdon, Nuneham Park.* Remarkable for fog, which produced the whole of the month's

register of ·08 in.—*Oxford, Potlands, Baldon.* R only ·02 in., on two days.—*Oxford, Magdalen College.* No R; the roof gauge caught ·01 in. of fog. Foggy nights from 17th to 25th.—*Oxford, Radcliffe Observatory.* No R.—*Oxford, St. Giles.* "February fill dyke" failed to produce ·01 in. of R; a few drops only, fell on 14th.—*Stanton St. John's, Woodperry.* No R; ·01 in. caused by fog.—*Bloxham Grove.* Remarkable for the slight amount of R; most of the moisture being deposited by fogs, which occurred on 9 days.—*Castle Ashby.* No R at all, though fog and hoar frost produced ·01 in. on 20th and on 21st. *Northampton.* Frosts up to the 27th, with dense fogs on 23rd, 24th and 25th. R the smallest in any month during 25 years.—*Easton Maudit.* Of real rain, none; only a few drops on the 14th, not sufficient to enter the gauge. Hoar frost melted off the gauge would, if it had not evaporated, have amounted to perhaps ·10 in. in the month, and a gauge placed under a tree might have caught ·25 in.—*Trumpington.* Remarkable; no R, but ·03 in. registered from fog.—*Fulbourn Asylum.* Very fine, with the exception of fogs, which were frequent. The smallest R recorded in any month.

IV. *Upminster Hall.* Excessive moisture from fog; no R.—*Walthamstow.* Very dry, and the sky remarkably clouded; no R recorded. Temp. high; eight days with a max. above 50°.—*Dudbrook House.* Remarkable for total absence of R and for continuous bright sunshine.—*Sudbury, Friars Street.* Cold and dry; R only ·02 in. Thick fogs from the 15th to the end.—*Ipswich, Bishop's Hill.* Not a shower throughout, but ·05 in. of wet fog. Temp. generally low, with cold nights.—*Woodbridge, The Cedars.* Traces of moisture in the gauge, but never enough to measure.—*Walsham-le-Willows.* Exceptionally dry, but some heavy mists and hoar frost, so that the ground under trees appeared as if watered.—*Diss.* The month began with bright weather, but from 5th to 10th and 17th to 22nd there were rather heavy white fogs in the mornings and evenings, the middle of the days being fine and sometimes brilliant. On the 24th and 25th also there were heavy morning fogs, but otherwise the last six days were magnificent. The R (·07 in.), is the smallest in any month during 20 years.—*Rushall Vicarage.* The ·01 in., recorded on 24th, was fog and frost; there was no actual R.—*South Walsham.* No R at all; ·06 in. deposited by fogs and rime.—*Felthorpe.* The first month without R in 18 years.—*Bylaugh Park.* Very dense fogs, yielding ·05 in.; no R.—*Dersingham.* Almost rainless, the deposit in the gauge arising from heavy fogs.

V. *Bishop's Cannings.* Wind N. or N.W. the first half of the month; S. or S.E. in the second half. Sharp frosts at night; fine bright days. No rain.—*Compton Bassett.* The driest month recorded; R only ·01 in.—*Portland.* Considerable sea fog on 9th, 10th, and 11th, yielding less than ·01 in., so the record for the month is ·00 in. —*Beaminster.* No R fell throughout the month.—*Wimborne Minster, Chalbury.* Quite rainless.—*Hazelbury Bryan.* Extremely dry. White frosts occurred on 14 days, but while the nights and early mornings were cold, the after parts of the days were warm and bright. Want of water was beginning to be felt on the higher ground.—*Babbacombe.* Very dry, calm, fine, sunny, and rather cold, with high bar. R fell only on 4th, 7th, and 8th, but was less than ·01 in., except on 7th. Dew and fog produced ·01 in. on 22nd and 26th.—*Torquay, Watcombe Park.* Exceptionally dry; no R from January 31st to March 7th.— *Tavistock Public Library.* The driest month for many years.—*Hatherleigh, Bromford Manor.* The driest month during the 12 years recorded; R ·03 in.—*Heanton Satchville.* The driest month since the record commenced in 1884; R ·07 in.—*Crewkerne, Bincombe House.* Very fine, dry, and bright, with high bar.—*South Petherton.* Very dry, R only ·02 in., but cold at night.—*Frome, Rock House, Mells.* No R, the ·02 in. recorded being the accumulation of fog and hoar frost.—*Bath, Ensleigh, Lansdowne.* Exceptionally dry, only ·01 in. during the month.

VI. *Clifton, South Parade.* The only R was a little drizzle on the 3rd, measuring ·003 in. On two or three occasions, during absolutely cloudless weather, a few thousandths were found in the receiver, apparently condensation due to the great range of temp., as there was not sufficient fog to account for it.—*Cirencester, Claremont Place.* No R fell, but dew deposited a slight, though unmeasurable quantity, in the gauge.—*Further Barton.* Absolutely without R. The nights frosty, the days clear and calm, with fogs early and late in the latter half.—*Bourton-on-the-Water.* No R, the measurement of ·02 in. being dew only.—*Cheltenham, Heath Lodge.* A month without R, but heavy dews on 4 days yielded ·05 in.—*Cheltenham.* Fine throughout. Very little fog; cold nights; bright sunny days.— *Ross, The Graig.* Absolutely rainless, but ·01 in. of S and fog. A good deal of fog in the early mornings, generally clearing by 9 a.m. The last 13 nights frosty. Great range of temp. The sixth dry February in succession, following seven consecutive wet ones, the means being ·77 in. and 3·79 in. respectively.—*Pembridge, Marston.*

Dry and cold; the driest month in 12 years.—*Wolverhampton, Wrottesley.* The smallest record in any month since observations began in 1844; R ·03 in.—*Burton, Derby Road.* Extremely dry; R fell on 5 days only, 1·82 in. below the average. Unparalleled for small amount in 15 years. Temp. three-quarters of a degree above the average.—*Orleton.* The driest month recorded in 60 years, the total fall being only ·07 in., of which more than one-third was fog.

VII. *Ketton Hall.* Very dry, only ·09 in. being recorded, on 5 days, the amount on three being precipitation from fog. Very little movement of the air, except on 11th. Severe frost on 8 days. Much fog, but a fair amount of sunshine and several clear days.—*Hemingby.* R ·11 in., the smallest monthly return since June, 1887, when only ·08 in. fell.—*Brattleby.* Only ·02 in. of R fell throughout. 1st to 14th, partial drought; 14th to 28th, absolute drought; 23rd to 28th, lovely in day, sharp frost at night.—*Southwell, Grants.* Remarkably dry. Probably the driest February since 1858, and the driest month since September, 1865. R fell on only 4 days.—*Worksop, Gateford.* Excepting ·05 in. on the 8th, the amount recorded was entirely fog or dew.—*Hodsock Priory.* Fine, calm and very dry, with a very high bar. Mean temp. about the average, but the daily range very large. Pressure higher than in any other month during 13 years, only falling below 30 in. for about 4 hours. There was only one slight shower of R, the rest which was collected being due to fog.—*Elvaston.* The driest month for at least 20 years.

VIII. *Hinderton.* The driest month recorded in 22 years.—*Walton, Breeze Hill.* A good deal of fog during the first 10 days; the latter part of the month very fine and bright.—*Southport.* The driest month on record, R less than a tenth of an inch. Great daily range of temp. in the latter half. Either mist or slight fog every day except 1st and 11th.—*Seathwaite Vicarage.* Dry, mild and beautiful, with more the character of April than of February.

IX. *Wakefield.* From the 16th to the close fog was almost incessant and very dense.—*Wakefield, Stanley Grange.* No R at all, the ·02 in. recorded being dew.—*Leeds, Oliver Hill.* Very dry; dense fogs prevailed during the last week.—*York, Cherry Hill.* Extraordinarily dry, the ·02 in. collected being really condensed fog.—*Ripon, Mickley.* Severe frosts throughout.—*Driffield, York Road.* Remarkably dry, no R whatever, but a slight fall of S on 13th, all the rest fog or dew. Much fog and hoar frost in the latter half of the month.—*Thixendale.* Marked by absence of wind, cloud and R; nightly frosts from 9th

to 28th inclusive.—*Malton, Norton.* R practically nil; weather bright and calm.—*Baldersby.* Cold S.E. winds prevailed; no R.—*East Layton.* Beautiful warm days and raw frosty nights were the rule, and not a drop of R fell.—*Forcett Park.* The driest month during 13 years.

X. *Darlington, Cleveland Parade.* Virtually without R.—*Whorlton* Very cold, with much hoar frost and some fog in the last week.—*Newcastle, the Quarries.* The driest February in 23 years.—*Duddon Hall.* Exceptionally fine, more like April or May, though the nights were cold.—*Ulpha Vicarage.* Exceptionally fine and bright all through, with very little wind.—*Wythburn Vicarage.* Beautiful, with much bright sunshine, but frequent white frosts.—*Keswick, The Beeches.* From the 8th to the close the weather was very fine, and from the 18th to the 28th there was almost unbroken sunshine.—*Uldale Rectory.* For the greater part the weather was very fine and genial.

XI. *Newport, Crindau House.* No R, but low temp.—*Llanfrechfa Grange.* The only month in 26 years without a drop of R. Much fog and mist, early and late, but the middays fine and sunny.—*Monmouth, The Hendre.* Remarkable for the almost total lack of R and wind. Some cloudy days occurred in the first week, but from the 11th to the end hoar frosts were general in the morning, with uninterrupted hazy sunshine during the day.—*Llanvihangel Court.* Very dry and calm; clear with bright sun, except on three days which were rather foggy.—*Oystermouth, Newton.* Dry, fine and spring-like, but frost almost nightly.—*Dolaeron.* R on only two days, total, ·10 in.—*Nantgwilt.* The smallest R in any month since observations were commenced 23 years ago.—*Mellington Hall.* The driest month since observations commenced in 1874; R only one fortieth of the average. Total drought for 17 days, ending 28th.—*Pool Quay.* Very dry; absolute drought for 25 days, from the 8th to March 6th.—*Douglas, Victoria Road.* Brilliant sunshine, and on the whole high temp.; remarkable for the least R recorded in any month.

XII. *Melrose.* Characterized by high temp., small R and an almost entire absence of gales. Not only the driest February but the driest month during 20 years. Mean temp. 3°·4 above the average.

XIII. *Edinburgh, Blacket Place.* Very dry; pressure and temp. generally in excess of the normal. No S.

XV. *Craigend Castle.* Fine, very mild and dry.

XVI. *Dollar.* Very fine and mild.—*Stronvar.* Very fine; R very light and no hard frost.—*Coupar Angus.* Bright days and cold nights,

particularly in the last week. R the smallest recorded, and temp. nearly 3° above the average.—*Inver Braan.* Very dry throughout; hard white frosts and dull misty days in the latter half.

XVIII. *Ben Nevis.* Mist or fog on the summit for 372 hours. S on 6 days, the depth being from 4 to 10 feet. The second half of the month very fine, fog rarely enveloping the top after the 16th.—*Drumnadrochit.* Exceedingly mild and summerlike from 14th to 27th. Gales on 11th and 28th.

XIX. *Scourie.* Variable; no S and very little frost; frequent H showers accompanied by strong winds from W. and N.W.—*Watten.* The first week mild and fine, followed by gales on 9th and 10th, and 4 or 5 inches of S on 11th. The latter half clear, mild and fine.

XX. *Coolkelure.* Very dry and fine; an almost entire absence of frost, fog and gales.—*Cork, Clarence Place.* The smallest February R in 27 years with the exception of 1888.—*Darrynane Abbey.* Very fine; occasional slight frosts, but on the whole warm and spring-like. R 3·89 in. below the average 1870–79, and 1·54 in. less than in February, 1875, the driest of the 10 years.—*Derry Castle.* The driest February registered; the total R being only one seventh of the average.—*Castle Lough.* A splendid month; very little R, very little frost, and very little fog or mist. Temp. frequently above 50°.—*Hurdlestown.* The driest month recorded in six years, the R being less than one-fifth of the average. Water in streams and lakes very low at the close.—*Miltown Malbay.* Unprecedentedly dry and mild. S. winds prevailing.

XXI. *Kilkenny, Inch House.* Fine and generally bright, with some frost. Exceptionally warm and sunny from 18th to 22nd.—*Glasnevin.* R ·03 in., the driest month recorded in 21 years.—*Twyford.* The smallest R in any month during 17 years.—*Currygrane.* Extremely dry, and the usual sources of water-supply running very short. With the exception of June, 1887, the driest month since 1879.

XXII. *Tuam, Gardenfield.* Extremely dry, and a great part mild. *Lawderdale.* Remarkably dry and mild; R the smallest in any month of the 7 years recorded except June, 1887.

XXIII. *Newcastle, Fairleigh.* Wonderfully dry, and some days towards the end more like summer.—*New Barnsley.* Frost nearly every night, but the days springlike. Wind S.W. to W. almost throughout. The smallest R recorded in any month.

MARCH.

I. *Mount View Road, N.* Fine and warm until the 7th; cold during the remainder. Frost on 12 nights.—*Muswell Hill.* R 6 per cent. above the average.

II. *Abinger Hall.* For the most part cold, but fairly dry.—*Wallington.* Cold and rather wet; vegetation very backward. S on 6 days; TS on 26th.—*Hythe.* The most severe March for many years, cold N. winds prevailing, with showers of H, S, and R.—*Keston Tower.* The first week mild, the remainder cold and blustering.—*Leysdown.* Very variable, with a prevalence of cold winds; often stormy.—*Lewes, Iford.* Cold and backward; heavy gale and S on 9th and 10th; all roads blocked.—*Winchester, Harestock.* Cloudy, cold, and windy, with frequent R. The roads were blocked by S drifts on the 9th and 10th.—*Beaumont College.* Seasonable, with much S.

III. *Throcking Rectory.* R ·41 in. above the average, falling on 24 days. Bright sunshine, 77 hours.—*Bloxham Grove.* The month opened fine and windy, with one or two pleasant days. On the 9th, after a gale from N.E., it began to S at 9 p.m., and on 10th it blew hard, with driving S, causing drifts 2 feet to 3 feet deep. The remainder of the month was dark, cold, and stormy, with gales and scuds of S, from 20th to 25th.—*Northampton, Hazlewood Road.* R little more than half the average. Northerly winds prevailed.—*Fulbourn Asylum,* Cold and misty, with the exception of the first three days, and frequent falls of S. Sunshine much below the average. Prevailing winds W. and N.W.

IV. *Walthamstow.* First week dry and cloudy, with temp. above the average; heavy gales and S storms of great intensity succeeded. The latter half was cold and dull, with frequent S showers. R about the average.—*Sudbury, Friars Street.* Dull, with occasional frosts and frequent S showers.—*Ipswich, Bishop's Hill.* Cold and backward; R ·23 in. more than the average.—*Rendlesham Hall.* The coldest and stormiest March for many years; frequent S and H storms in the latter part.—*Crimplesham.* Very stormy. S on 9 days; H on 4 days.

V. *Bishop's Cannings.* Much colder than February, and some very sharp frosts. S remained on the ground in places from December 18th to the end of this month.—*Babbacombe.* Cold, snowy, wet, damp, stormy, and cloudy. The long dry period of 34 days with only ·04 in. of R, dew, or fog, ended on 7th, and frequent showers

of R and S fell to the close of the month.—*South Petherton.* Heavy falls of S in the second week, blocking many roads.—*Stowell Rectory.* A severe March. Gales and snowstorms, the drifts in places in this locality being 8 or 10 ft. deep.

VI. *Further Barton.* A most wintry month, the temp. being frequently very low.—*Ross, The Graig.* The first week generally fine and warm, with a few squalls. From the 9th to the 31st frost every night except the 25th. and very sharp on the 12th and 13th. The blizzard of the 9th will be long remembered for violence of wind and drifted S, though not so bad as January 18th, 1881.—*Burton, Derby Road.* R ·31 in. below the average. Seven falls of S.

VII. *Ketton Hall.* Cold all through, with occasional sleet and S, but a fair amount of sunshine.—*Brattleby.* Bitterly cold, with frequent S storms and gales.—*Southwell, Grants.* The fourth month in succession with R considerably below the average; many wet days, but small falls.—*Hodsock Priory.* Rather cold, dry, and windy, with average sunshine. No specially severe cold, but no warm or mild weather at all. Several S showers, but it never lay on the ground for more than a few hours. *Willington.* Cold and dry; much frost, but little S compared with other parts of the country.—*Derby, Elvaston.* Rather dry on the whole, with variable winds; 15 frosty nights.

VIII. *Southport.* R less than half the average; much mist; slight S on 4 days; H on 5.—*Broughton-in-Furness.* Severe frosts at night almost throughout.

IX. *Wakefield.* Generally cold and dull, with frequent S, R, and H. —*Driffield, York Road.* Cold generally; sunshine abundant; much ground frost.—*Scarborough.* Mild but stormy during the first week; the remainder cold, with frequent S.—*East Layton.* Balmy at the commencement, but the greater part cold, with R, S, and high winds.

X. *Ulpha Vicarage.* Dry and cold, with N. and E. winds, very strong at times.—*Hassness.* Cold N. and E. winds almost throughout, but little S, except on the Fells.

XI. *Monmouth, The Hendre.* On the whole dull, with cold N. or N.E. winds and frequent light falls of S.—*Oystermouth, Newton.* Dry, foggy, and cold.—*Douglas, Victoria Road.* Fine, but very cold, with N.E. to N.W. winds; vegetation unusually backward. R probably the least recorded in March.

XII. *Melrose, Abbey Gate.* Cold, wet, and backward. Mean temp. 1°·2 below, and R 1·01 in. above, the average. Wind from S. or W. on 21 days.

XIII. *Edinburgh, Blacket Place.* Mean temp. 5°·2 below that of February. S or H on 12 days.

XV. *Craigend Castle.* Very cold and stormy; the coldest month during the winter.—*Inverary, Newtown.* Very stormy at the beginning, then about a week of brilliant sunshine with sharp frosts at night. Again a day or two of storms and then more brilliant weather. Some S showers, but very little S lying.

XVI. *Stronvar.* Stormy and cold, with the most severe frost of the winter. High winds very prevalent, chiefly from N.—*Coupar Angus.* Cold and dry with N.W. winds. R in small quantities on 10 days and the total below the average. Mean temp. 1°·4 below average.

XVIII. *Ben Nevis.* Mist or fog on the summit for 436 hours. The temp. fell below freezing point on 4th, and did not rise above it during the remainder of the month.—*Glenaladale.* Fine on the whole, but cold and wintry.

XIX. *Watten H.R.S.* A series of gales and S storms throughout, with frosts of short duration.

XX. *Coolkelure.* Very dry, with high cold E. winds.—*Darrynane Abbey.* Dry and cold, with hard frost from 7th to 12th.—*Derry Castle.* Very harsh, the first half dry and frosty with bitter N. winds. Several heavy falls of S after the 14th, and boisterous weather to the close; the wind frequently changing from N.E. to N.W. and W. R 1·11 in. below the average.—*Castle Lough.* Cold and harsh throughout; severe frost from 7th to 14th, and on the night of the 26th the heaviest fall of S of the winter.—*Hurdlestown.* Cold, with hard E. winds, which much retarded growth. R and rainy days very near the average. —*Miltown Malbay.* Dry and very cold, though R fell in small quantities on 18 days. Frost from 8th to 13th as severe as any of the winter.

XXI. *Kilkenny, Inch House.* Fine and very cold; occasional frosts and S and H showers.—*Athlone, Twyford.* The early part comparatively dry, but very cold.—*Currygrane.* Very severe; provender never known so scarce before.

XXII. *Tuam, Gardenfield.* Cold, with very severe frosts during the first half. —*Lawderdale.* Hard and cold and the latter half wet.

XXIII. *New Barnsley.* Very stormy, with R and H till 6th; fine and cold by day and hard frost at night from 7th to 13th; cold sleet showers from 14th to 25th, and from then to 28th the most severe storm of the season, S and sleet with keen biting wind.

APRIL.

I. *Mount View Road, N.* The driest April since 1884, only ·08 in. of R falling in the last 18 days.—*Muswell Hill.* Very dry, the R being only 44 per cent. of the average. The last 18 days were dry, excepting ·04 in. on 16th and ·01 in. on 25th.—*Finchley, Etchingham Park.* Very dry, R falling on only 10 days, and all excepting ·05 in. between the 3rd and 12th.

II. *Haslemere, Hazelhurst.* Dull and rainy early; sunny later.—*Abinger Hall.* Dry, but cold, with N. and N.E. winds; many bright days.—*Wallington.* Cold and dreary with R much below the average, and a great prevalence of E. and N.E. wind.—*Hythe.* Cold, dry and windy. Vegetation very backward.—*Keston Tower.* Very cold, with a good deal of E. wind, and very little R.—*Leysdown.* Generally dry, with bright sunshine and cold N.E. to E. winds.—*Brighton, Prestonville Road.* Cold and unseasonable, with very dry winds; R very small.—*Lewes, Iford.* Very dry and cold, all vegetation very backward.—*Winchester, Harestock.* Cold and windy.—*Headley, Arford.* Very cold, but fine and dry.—*Beaumont College.* Cold and dry.

III. *Throcking Rectory.* R 0·84 in. below, or little more than half of, the average. Mean temp. 2°·7 below the average. Bright sunshine 79 hours.—*Bloxham Grove.* A constant succession of polar winds, bitterly cold and frequently of great force. The 29th and 30th were the only warm growing days, the rest of the month being gloomy and overcast almost continually, with low temp; R light and streams and springs very low.—*Northampton.* R the same as the average of 25 years.—*Fulbourne Asylum.* Generally dull and cold, with great prevalence of N. and N.E. wind. R deficient.

IV. *Walthamstow.* As a whole dry and cold; the month opened dull and wet, and almost the entire R fell before the 7th. The second week was cold, showery and dull. From 17th to the end no R fell.—*Ipswich, Bishop's Hill.*—Very dry and cold, R little more than one-third of the average.—*Rendlesham Hall.* Very cold and dry with frequent frosts.—*Diss.* Very cold with small R, and wind almost constantly N. or N.E. till the last three days, which were warmer and bright.—*Denver.* Unusually dry and cold; vegetation very backward.

V. *Bishop's Cannings.* Cold and dry; hardly any growth. R two-thirds of the average.—*Hazelbury Bryan.* Cold throughout, with N.E. and E. winds, and remarkably dry.—*Babbacombe.* Cold and dry, with

little sun heat and much E. wind. Nearly two-thirds of the R fell in the four days 2nd to 5th.

VI. *Cheltenham.* R 1·07 in. below, or a little less than half, the average; temp. 1°·4 below the average; much cloud throughout.—*Ross, The Graig.* Very cold but dry; wind N. or E. most of the month but changing to S. and W. during the last few days.—*Burton, Derby Road.* Very cold; R ·31 in. and temp. 2°·5 below the average.

VII. *Ketton Hall.* Generally dry but cold, the wind blowing from an easterly direction on 21 days. Severe frost on 18th, 26th, and 27th.—*Bucknall.* Very cold and ungenial.—*Brattleby.* Very cold with the exception of 29th and 30th; not a spring day throughout. E. winds for 24 days.—*Hodsock Priory.* Dull, rather dry and very cold, with much N.E. wind. No April of the preceding 16 was so cold, and only one of the last 10 had less sunshine. R a little below the average.—*Elvaston.* Very cold, with almost continuous E. winds.

VIII. *Southport.* By far the smallest amount of ozone recorded here in 20 Aprils.—*Seathwaite Vicarage.* Cold, with about the average R.

IX. *Driffield, York Road.* Cold and dry, with preponderance of N.E. and E. winds.—*Scarborough.* Continuously cold, with bitter winds from E. and N. until the 28th.—*East Layton.* The worst April remembered; very cold and backward.

X. *Whorlton.* Much R, and generally very cold wind.—*Ulpha Vicarage.* Dry, cold and bright, with little exception, the wind remaining between N. and S.E. till 29th.—*Uldale Rectory.* Very cold and disagreeable, but R on only 9 days.

XI. *Llanfrechfa Grange.* Very cold, but a good deal of sunshine, more like March than April.—*Monmouth, The Hendre.* The early part was wet, but during the middle and latter part the wind was E., and it was very cold, but generally dry.—*Llanvihangel Court.* Cold with N.E. and E. winds; the max. in shade exceeded 55° on only three days.—*Douglas, Victoria Road.* April began with a stiff S.E. gale, and heavy rains until the 6th, from which date to the 28th was an unbroken spell of northerly winds, mostly strong; the last three days were wet and milder. The coldest and latest spring since 1880.

XII. *Melrose, Abbey Gate.* Favourable for putting in the seed, but owing to the cold dry winds the pastures were very bare. R little more than one fourth of the average; wind N. or E. on 22 days.

XIII. *Edinburgh, Blacket Place.* Very dry. Mean temp. 0°·6 below that of February.

XV. *Craigend Castle.* Dry and cold, with a prevalence of E. wind. —*Inverary.* Very dry, with a good deal of E. wind; everything backward.

XVI. *Stronvar.* N. and E. winds prevalent; temp. very low, continued S on the hill tops.—*Coupar Angus.* R about half-an-inch above the average, falling chiefly on the first 5 days; the remainder of the month being dry and harsh. Temp. 2°·0 below the average and the lowest in April during 11 years.

XVIII. *Ben Nevis.* Mist or fog on the summit for 357 hours. The temp. was above freezing point for only 10 hours. S on 10 days. —*Glenaladale.* Very fine, with much sunshine and cold calm air. Frost on the grass on most nights.—*Drumnadrochit.* R not half the average; prevailing winds E. and N. with frosts every night.

XIX. *Scourie.* Sharp frosts prevailed at night during the first half and bright sunshine by day. Sleet and S showers occurred at intervals, but the R was very small.—*Watten H.R.S.* Cold and dry throughout, with N. and E. winds.

XX. *Coolkelure.* Harsh and cold, with E. and S.E. winds.—*Cork, Clarence Place.* Chiefly remarkable for low temp., harsh winds and deficient R.—*Darrynane Abbey.* Dry but cold, almost constant E. and S.E. winds until the last few days.—*Derry Castle.* Dry with frequent night frosts and harsh winds, except from 12th to 18th and on the four closing days. R 33 per cent. below the average.— *Hurdlestown.* Fine but cold. R ·10 in. above and rainy days 1 below the average.—*Miltown Malbay.* Dry and frosty, E. winds prevailing. The much needed R came on 29th and 30th.

XXI. *Kilkenny, Inch House.* April opened wet and stormy, but from the 6th bright sunny weather prevailed. Wind generally very cold.—*Tuyford.* Very cold except the last three days.

XXII. *Tuam, Gardenfield.* Cold; very dry from 14th to 29th.— *Lawderdale.* Harsh and cold, N. and E. winds prevailing.

XXIII. *Arley.* Cold and dry, and the country badly off for R till the last two days.— *Lurgan, Belle Vue.* The driest month recorded since the register was commenced in 1880 —*New Barnsley.* Very stormy with sleet and R for the first four days, then with the exception of occasional mild showers, very cold till 22nd, then still colder till 28th, the frost cutting off early potatoes; the last three days genial spring weather.— *Carrablagh.* Unusually dry; the weather very fine and not harsh.

MAY.*

I. *Muswell Hill.* R 48 per cent. above the average, the second half of the month being very wet, with R every day but 31st.—*Finchley, Etchingham Park.* Generally dry till 15th, from which date R fell daily till 30th.

II. *Haslemere, Hazelhurst.* Dry, fair and warm early; wet, dull and cold after.—*Wallington.* Dull, cool and rather wet. R above the average; sunlight deficient. TSS on 2 days.—*Hythe.* Unusually cold, wet and windy.—*Keston Tower.* Very cold, except on 12th, 13th and 31st, with a great deal of cold R.—*Brighton, Prestonville Road.* Fine, dry weather with cold winds, followed the showers at the commencement. A considerable rise of temp. occurred on the 11th, but did not last long, and after the 14th it was cold, stormy and showery.—*Lewes, Iford.* Cold and ungenial, except on 11th, 12th and 13th, when it was very hot.—*Emsworth.* Cold till 11th, then two days of great heat, followed by cold to the end. Very cold nights. Strong winds.—*Winchester, Harestock.* Cold to the 10th, very warm from 11th to 13th, cloudy and showery later.—*Beaumont College.* Very wet.

III. *Berkhampstead, Rosebank.* The first unseasonably wet month since July, 1890.—*Hitchin.* Such an instance of winter and summer in one week must be without a parallel. Sunday the 10th, S, Wednesday a hotter day than was ever before recorded so early in May, and S again on Friday, Saturday and Sunday following.—*Throcking Rectory.* R 1·09 in. above, and mean temp. 2°·8 below, the average. Bright sunshine 124 hours.—*Bloxham Grove.* With the exception of five fine days, a gloomy and disagreeable month.—*Northampton, Hazlewood Road.* R nearly an inch above the average.—*Fulbourn Asylum.* Cold, dull and cheerless; only three fine days, from 12th to 15th.—H and S on several occasions.

IV. *Walthamstow.* The early part cold, dry and dull; then clear hot weather from 11th to 13th, and cold and wet to 19th, the 18th being the coldest day in May for many years. The remainder very wet, cold and disagreeable.—*Ipswich, Bishop's Hill.* Cold, with two hot days (12th and 13th). Many white frosts, and ice on 16th.—*Diss.* May commenced with a heavy gale, T and S, and S fell on four other days. In the second week there were some brilliant days, and on the 10th the temp. rose to 83°, but on 13th fell to 26°. It was

* See also *Met. Mag.* June, 1891, p. 65–68, 79–80.

showery from 15th to 27th, but some fine days occurred at the close. —*Denver.* Remarkably cold, with the exception of 13th and 31st.

V. *Hazelbury Bryan.* Very variable, with sharp frosts at night on 16th and 17th.—*Babbacombe.* Cold and wet with great variations of temp. Showery from 1st to 4th, 7th to 10th and 15th to 31st; fine and sunny on 6th and from 11th to 14th. Cold on 8th, 10th, and from 15th to 30th. The temp. exceeded 70° on three days, the max. on 13th being the highest observed in May.—*Stowell Rectory.* A cold month, broken by a warm period about the 13th. Average R.

VI. *Further Barton.* Great changes and extremes. Fine and warm for three days after the 11th, followed by cold storms from N.W., with H and a little S and frost on three nights; after this wet weather prevailed until 30th.—*Ross.* Warm from 11th to 14th: the remainder cold and very wet. Great destruction by frosts on 17th and 19th.—*Burton, Derby Road.* Extremely cold; R normal. Mean temp. 2°·5 below the average. Last frost of the winter in the air on the 19th; S fell as late as 16th and 17th.

VII. *Ketton Hall.* Remarkable for two hot days (12th and 13th), followed by cold weather and S on 16th, 17th and 18th; warm again during the last three days.—*Brattleby.* Rather rainy and by no means warm; damaging frosts about the middle.—*Hodsock Priory.* Cold, unsettled, rather dull and wet. R 1·34 in. above the average.—*Elvaston.* Very ungenial, much cold and rough wind.

VIII. *Seathwaite Vicarage.* Cold and rainy, but with no great amount of R. Chiefly to be remembered for the severe frost on 17th, which cut down all potatoes.

IX. *Malton, Norton.* Very unsettled, R, H, S, sleet, T and severe frost doing irreparable damage.—*Scarborough.* Very cold, ungenial and wet, with one or two short intervals of spring weather.—*East Layton.* Very ungenial; three very hot days from 11th to 13th, after which very cold weather prevailed to the close.

X. *Whorlton.* Very cold, with frequent R till the last four days, then warm.—*Nether Wasdale.* Unusually cold, with N.E. and E. winds, and S and H showers.—*Uldale Rectory.* The first half cold and unseasonable, the latter part moist and warm.

XI. *Llanfrechfa Grange.* Very cold, except on 11th, 12th and 13th and the last five days.—*Monmouth, The Hendre.* Exceedingly changeable temp.; the first fortnight tolerably dry, but from 14th to 29th R every day. Powerful sunshine in the second week.—*Llanvihangel Court.* With the exception of 11th to 13th, cold with N.E. to N.W.

winds.—*Oystermouth, Newton.* Dry and cold to the middle, when winter returned, with frost and S.—*Douglas, Victoria Road.* Bitterly cold and wintry, with strong northerly winds. R much below the average, and drought becoming serious.

XII. *Melrose, Abbey Gate.* Cold and backward. R ·18 in., and mean temp. 3°·2, below the average; wind N. or E. on 18 days.

XV. *Inverary, Newtown.* Cold, with N.E. wind, except from 9th to 12th, when it was remarkably warm.

XVI. *Dollar.* Generally cold, E. winds prevailing.—*Stronvar.* Very cold and dry; E. winds prevalent; very little growth.—*Coupar Angus.* Frequent slight frosts and cold E. winds. R about half an inch below the average.

XVIII. *Ben Nevis.* Mist or fog on the summit for 427 hours. S on 19 days. Mean temp. 29°·9.—*Glenaladale.* Dry, chilly and backward. Some warm days towards the middle, afterwards very cold with frequent frosts on grass.—*Drumnadrochit.* Unusually cold and stormy, excepting the first few days.

XIX. *Scourie.* With the exception of a very few days, exceedingly cold, with frequent showers of S, sleet and H, and the wind for the most part N.—*Watten H.R.S.* The first part dry, with hot sun by day and frost at night; S storms in the middle, and the latter part wet, cold and cloudy.

XX. *Darrynane Abbey.* Very cold and ungenial; vegetation backward.—*Derry Castle.* Very ungenial; the first half dry, with hot sun by day, but cold nights; the second half showery, but very harsh, with frequent falls of H, nightly frosts and cold winds. R about 20 per cent. below the average, but number of rainy days large.—*Broadford, Hurdlestown.* A showery month, with R much below the average, but the number of rainy days about the average.—*Miltown Malbay.* Though R or H fell on 24 days, the aggregate was small, and the ground was at once dried by cold, almost arctic, winds. Frosts occurred every night from 14th to 30th, seriously damaging vegetation. The rivulets and springs were getting dry at the close.

XXI. *Kilkenny, Inch House.* Overcast, stormy and cold, with T, L and H. Average R.—*Currygrane.* Warm and fine from 8th to 14th, then cold and showery with frequent H till 20th, and the remainder variable.

XXII. *Tuam, Gardenfield.* Dry; the first fortnight mild, but generally cold after the 15th; sharp frost on 17th doing much damage to vegetation.—*Lawderdale.* Harsh and cold, with frosts on 16th and 18th which damaged potatoes.

XXIII. *Arley.* A most ungenial May. Cold N. and N.E. winds, showers, and ground frosts at night. All vegetation late.—*New Barnsley.* Variable and showery at the beginning; summer-like from 14th to 18th, then very cold and wintry till 29th.—*Lough Swilly, Carrablagh.* The worst May remembered, wind almost invariably N. or E. and the temp. low.

JUNE.

I. *Mount View Road, N.* Fine and dry, only ·03 in, of R falling between the 5th and 22nd. The max. temp. reached 70° on 16 days. —*Muswell Hill.* Very dry, R only 63 per cent. of the average. In the 17 days ending 20th, only ·04 in. of R fell on 15th.—*Finchley, Etchingham Park.* Dry; R recorded on the first four days, followed by what would have been an absolute drought of 17 days, but for ·06 in. on 15th.

II. *Haslemere, Hazelhurst.* Generally fair and warm.—*Abinger Hall.* Very dry and genial; R greatly needed at the close.—*Wallington.* Fairly fine and warm and comparatively dry.—*Hythe.* Fine and seasonable.—*Keston Tower.* The first half generally cold and unseasonable, the remainder, average June weather.—*Leysdown.* Cold winds, generally from E., prevailed for the greater part of the month, the days being hot and the nights cold.—*Brighton, Prestonville Road.* Wet and unsettled at first; very fine from 9th to 21st, then wet again. —*Lewes, Iford.* Cold and showery. Vegetation very backward.— *Beaumont College.* Warm and bright.

III. *Bloxham Grove.* From 1st to 5th rainy, then to the middle of the month, a fine day from time to time, but mostly gloomy and overcast with low temp.; from 15th to the end very fine and pleasant, with the exception of 24th and 25th.—*Northampton, Hazlewood Road.* R ·27 in. below the average. N.E. and S.E. winds in the early part, S.W. later.—*Fulbourn Asylum.* Dull and cold, very few fine days; great prevalence of E. and N.E. winds.

IV. *Walthamstow.* Dry and warm, the only summer, save for a week in September, occurring in this month. R below the average.— *Ipswich, Bishop's Hill.* Dry; R less than half the average. Very variable, with T, L and R in the third week.—*Diss.* Magnificent summer weather; sharp TSS on three days.

V. *Bishop's Cannings.* The first week warm, the second quite cold; the third hot and fine, and the fourth showery. R less than half

the average.—*Babbacombe.* Wet, damp and rather warm. Showery to 8th and after 22nd; warm from 12th to 22nd; no R in the 13 days ending 21st. Fog on 8 days, the greatest number recorded in June.—*Stowell Rectory.* R about an inch less than, but temp. 1°·4 above, the average. E. winds prevailed from 6th to 9th and from 18th to 25th.

VI. *Further Barton.* Fine on the whole, and very warm excepting a cold spell about the 7th. The last four days fresh and windy.—*Ross, The Graig.* R 40 per cent. below the average, the fall occurring principally in TSS. The middle of the month was very fine and dry, but the only hot days were the 19th and 20th.—*Burton, Derby Road.* R ·60 in. above the average: periods of eight and of seven days without R. Mean temp. slightly below the average. The last frost, on grass, of the winter on 13th.

VII. *Ketton Hall.* Mostly dull; only three bright days and one clear one. No R for 17 consecutive days ending 22nd. T on five days.—*Brattleby.* Cold and wet for the first week, after that, hot sun and cool wind, specially cold in the evenings.—*Hodsock Priory.* The first week very wet, the remainder fine but without much sunshine. R nearly an inch above the average.

VIII. *Chester, Rowton Grange.* Out of the total R (5·82 in.), 4·72 in. fell in three days.—*Southport.* By far the smallest amount of ozone recorded in June in 20 years.—*Seathwaite Vicarage.* Very dry till the last few days, with a high temp. and a good deal of strong N. wind.

IX. *Driffield, York Road.* Dry; R much needed at the close.—*East Layton.* The early part very cold and dry, but a favourable change of wind occurred about the 12th.

X. *Whorlton.* Cold E. wind till 17th, then very warm for ten days; heavy R on 26th, followed by much cooler weather.—*Pawston.* Excessively dry; R only ·59 in. on eight days.—*Ulpha Vicarage.* Temp. very low for the first half, with E. and N.E. winds; frosts on grass occurring on 8th and 10th; warmer after the 19th.—*Nether Wasdale.* Dry and warm, with N.E. or E. winds very prevalent.—*Uldale.* On the whole very pleasant, for though E. winds prevailed they were tempered by warm sun.

XI. *Llanvihangel Court.* The first five days pleasant, then cold to 17th with N. and N.E. winds; unsettled with S.W. wind from 25th.—*Douglas, Victoria Road.* June came in cold and wet, with strong N. winds and gales. From 5th to 24th very dry, and cold till 18th,

followed by an extremely warm week, the mean temp. exceeding the average by 7°. The remainder wet and cold.

XII. *Melrose, Abbey Gate.* Excessively dry, and the Tweed lower than remembered. R less than half the average.

XIII. *Edinburgh, Blacket Place,* Calm, dry and sunless.

XV. *Craigend Castle.* Dry and parching, vegetation backward.—*Inverary, Newtown.* Brilliant warm weather for the first fortnight, then after a few rainy days, fine again till towards the close, when much needed R fell.

XVI. *Dollar.* Dry on the whole and very warm towards the close. —*Stronvar.* Until the 14th very cold at night, and scorching sun with E. wind during the day; the latter part hot, and favourable rains at the close.—*Coupar Angus.* Very bright and sunny, with cold nights during the first half. R an inch below, or less than half of, the average. Temp. 4° above the average, chiefly due to the warm days after the 14th.—*Inver Braan.* Very dry with fairly hot sun during the day, but cold nights.

XVIII. *Ben Nevis.* From 1st to 12th, and 20th to 25th, very fine and warm. Fog or mist on the summit for 296 hours.—*Glenaladale.* Very fine, but scorching E. winds for the first twelve days.

XIX. *Watten H.R.S.* First half dry, cloudy and cold; the latter clear, mild and fine.

XX. *Dunmanway, Coolkelure.* Very dry and warm from 4th to 25th.—*Cork, Clarence Place.* The month opened with heavy R, succeeded by 20 days of fine weather; high wind and heavy showers at the close.—*Darrynane Abbey.* The first few days cold, the remainder warm, and from 17th to 25th very hot.—*Derry Castle.* The first week showery and rather cool; dry and very warm from 6th to 23rd, thence to the end showery. R 23 per cent. below the average. —*Broadford, Hurdlestown.* Fine, with some very hot weather.—*Miltown Malbay.* After the first week warm weather set in, increasing in sultriness till the 24th, when the weather broke with T and L and remained unsettled and cool to the close.

XXI. *Kilkenny, Inch House.* Fine and mild, with much lovely weather; T, L and R on 24th and stormy to the close. Wind frequently high.

XXII. *Tuam, Gardenfield.* Fine, dry and mostly warm, especially so from 16th to 25th, which period was also rainless.—*Lawderdale.* Very warm and sultry.

XXIII. *New Barnsley.* From 4th to 24th nearly continuous sun-

shine, the remainder showery.—*Carrablagh.* Characterized by extreme drought and heat.

JULY.

I. *Mount View Road, N.* Cold and wet; the fourth consecutive wet July.—*Muswell Hill.* R 5 per cent. above the average of 19 years. The first week excepting the 2nd was wet, the next ten days quite dry, and of the remaining 14 days R fell on 11.—*Finchley, Etchingham Park.* In the first eight days 1·39 in. fell; no R was recorded during the next ten days, but from the 18th to the end R fell on every day but two.

II. *Haslemere, Hazelhurst.* Wanting in sun; rainy towards the end. —*Abinger Hall.* Very changeable; occasional TSS; some good weather in the second week, but dull, damp and cold towards the end.—*Wallington.* Rather wet and cold, with numerous TSS. Sunlight deficient. *Hythe.* Very unsettled and cold for the season.—*Keston Tower.* A great deal of R; no hot weather; the last five days unusually cold.—*Leysdown.* Great deficiency of bright sunshine, most days being cloudy even when no R fell.—*Brighton, Prestonville Road.* Very unsettled, frequent TSS and heavy rains.—*Headley, Arford.* Cool and showery.

III. *Broxbourne.* One week fine, the rest of the month very unsettled. T on 8 days.—*Throcking Rectory.* R ·41 in. below, and mean temp., 3°·3 below, the average. Bright sunshine 100 hours.—*Blorham Grove.* R fell daily in considerable quantities till 8th, from which date to the 20th fine weather prevailed, but there was a good deal of cloud. The remainder with the exception of three fine days (24th to 26th) was showery with frequent TSS.—*Northampton, Hazlewood Road.* R about half-an-inch below the average.—*Fulbourn Asylum.* Very little sunshine; very cold nights; many TSS.

IV. *Walthamstow.* Rather wet, but a few warm days about the end. —*Ipswich, Bishop's Hill.* Unsettled, with many short showers and TSS. Very cold nights from 27th to 29th. R ·46 in. above the average.—*Diss.* R about ·80 in. above the average of 20 years. The month opened with a heavy fall of R with T; and throughout, TSS with drenching showers were frequent, though there were brilliant intervals, and the temp. during the first three weeks was warm; the last few days were colder, wet and dull with N. winds.—*South Walsham.* Exceedingly wet.

V. *Bishop's Cannings.* Pleasant but not very hot; chilly at the end. R nearly ·50 in. below the average.—*Babbacombe.* Cold, variable and rather wet. Showery from 1st to 6th, 17th to 22nd and on 27th, 29th and 30th. Fine, dry and sunny from 9th to 16th. Cold from 1st to 12th and 28th to 30th.—*Stowell Rectory.* Very deficient in sunshine.

VI. *Further Barton.* The first week wet, then dry and more settled until after the 18th, when showery, thundery weather set in. Temp. singularly changeable; frost on 28th.—*Cheltenham.* Heavy showers for the first eight days, followed by a fortnight of splendid weather. Some fine, bright days occurred after the 22nd, but the close of the month was cold, wet and unpleasant.—*Ross, The Graig.* Wet weather prevailed till 7th, the R being continuous rather than heavy, and the last week was cool and showery.—*Burton, Derby Road.* Extremely cold, R ·58 in., and temp. 3°, below the average. The coldest July save two (1879 and 1888) during 16 years.

VII. *Ketton Hall.* Changeable and unsettled with many showers, and not one entirely bright day throughout.—*Brattleby.* Wet, but not excessively so; fairly warm, but no oppressively hot weather.—*Hodsock Priory.* Dull and cool without any warm summer weather. R very near the average.

VIII. *Southport.* R an inch and a half below the average; an unusual prevalence of W. winds. Amount of ozone curiously small.—*Lancaster, Eadenbeck.* R only two-thirds of the average.—*Broughton-in-Furness.* Most of the springs and streams dried up, but the country was kept green by frequent scanty showers.

IX. *Driffield, York Road.* Wet, though few rainy days.—*Scarborough.* Fine and pleasant generally, but with lower temp. than usual.

X. *Whorlton.* Generally cold with much R.

XI. *Llanvihangel Court.* On the whole fine; S.W. winds at the beginning, W., N.W. and N. for the last 12 days. R small.—*Douglas, Victoria Road.* Fine and mostly bright throughout; but, nevertheless, extremely unpleasant. Very cold to 11th; summer-like weather from 12th to 17th; strong N. winds and gales from the 22nd to the end. R fell on only 8 days, and the drought continued, intensified by the cold, parching winds. Water scarce.

XII. *Melrose, Abbey Gate.* R ·57 in. below the average; T and L on 3 days.

XIII. *Edinburgh, Blacket Place.* Wet, though sunny; the excess of R being due to heavy showers. No warm days.

XV. *Craigend Castle.* Bright and dry; scarcity of water.

XVI. *Coupar Angus.* R about an inch above the average, temp. also above average.

XVII. *Forres, Grange Hall.* R excessive (5·90 in.), and unequalled for many years.—*Elgin, Highfield.* The wettest month in 17 years; R 6·67 in.

XVIII. *Glenaladale.* Rather wet, with very little sunshine.—*Drumnadrochit.* Rather more than double the average R.

XIX. *Watten, H.R.S.* Generally mild, wet and cloudy till the last week, which was cold, wet and cloudy.

XX. *Coolkelure.* Fine, warm and dry.—*Cork, Clarence Place.* R little more than half the average.—*Darrynane Abbey.* Very fine, and the middle intensely hot.—*Derry Castle.* Very fine, the driest July since 1878. R 67 per cent., but rainy days only 1, below the average.—*Hurdlestown.* The driest July on record here. R 1·73 in. less than, or only two-fifths of, the average of 6 years. Water very low everywhere, and great scarcity in some places.—*Miltown Malbay.* Dry and parching; the middle very warm; the end cold, with fierce N. winds. Though R fell in small quantities on 15 days its effects were inappreciable. All the springs and streams were dry or drying.

XXI. *Kilkenny, Inch House.* Cold and showery to the 7th, thence to the 18th bright and warm; the remainder most unsettled.

XXII. *Tuam, Gardenfield.* Fine and dry as a whole, and part very dry and warm.—*Lauderdale.* A dry month; the first 10 days rather cold, the rest warm and sultry.

XXIII. *New Barnsley.* From 1st to 6th showery, 7th to 9th cold and March-like, 10th to 16th charming summer weather, 17th to 21st showery, and thence to the end fine and seasonable.—*Carrablagh.* Excellent growing weather, and great improvement in the outlook for all crops.

AUGUST.*

1. *Mount View Road, N.* The wettest August since 1879. R falling on 22 days.—*Kensington, Edith Road.* Very dull and cold; 15 consecutive rainy days from 17th to 31st.—*Muswell Hill.* The wettest August since 1879, the R being 88 per cent. above the average of 19 years. R fell on every day but two in the second half.—*Finchley, Etchingham Park.* The wet July was succeeded by a much wetter

* See also *Met. Mag.*, Sept. 1891, p. 116—123, and 127—128.

August, the latter half having much the most R. The longest dry period was 3 days, 12th to 14th.

II. *Haslemere, Hazelhurst.* The wettest August recorded, only five days without R, and from 17th to 31st R every day.—*Abinger Hall.* Unusually wet, with a fall of 2·14 in. on 20th, which beat down the corn.—*Wallington.* Very wet and stormy. R more than double the average, amount of cloud excessive, and sunlight very deficient. *Hythe.* Very unsettled, wet and cold.—*Keston Tower.* Very rainy and cold, with a great deal of wind. Not a single hot day.—*Leysdown.* Generally wet and stormy, with very little sunshine.—*Brighton Prestonville Road.* Very wet and stormy, R the largest in any month since October, 1889.—*Lewes, Iford.* Very wet, with low temp.; disastrous for the harvest.—*Wadhurst, Lower Cousley Wood.* R 3·23 in. in excess of the average of 10 years.—*Southampton, Red Lodge.* Exceptionally rainy and stormy.—*Headley, Arford.* The wettest August since 1879, and the coldest for many years—*Beaumont College.* Very wet and cold.

III. *Throcking Rectory.* R 1·67 in. (or rather more than 50 per cent.) above the average, falling on 28 days. Mean temp. 2°·8 below the average. Bright sunshine 110 hours—*Stony Stratford, Thornton.* The greatest R in August for 22 years, with the exception of 1878. —*Bloxham Grove.* Some fine days with R intervening at the beginning, but except on 8th and 14th a temp. of 70° was never reached. After the 17th R fell in considerable quantity on every day but the 21st. —*Northampton.* R 50 per cent. above the average of 25 years.— *Fulbourn Asylum.* Dull, cold, wet and unseasonable; the nights cold; unusually little sunshine.

IV. *Walthamstow.* Phenomenally wet, R much above, and temp. considerably below, the average. Severe gales in the latter half. Only 6 days on which no R fell.—*Sudbury, Friars Street.* Unsettled weather, with low temp.—*Ipswich, Bishop's Hill.* Dull, wet, cold and sunless; R ·47 in. more than the average.—*Woodbridge, The Cedars.* Cold and stormy; harvest much injured.—*Diss.* Wet and unsettled, with many TSS. It blew heavily from S. & S.W. between the 24th and 29th, amounting to a full gale on 26th and 28th. The haysel was not concluded at the beginning of the month, and at the close there was much wheat cut, but little or none carried.—*Denver Rectory.* Very wet and stormy; some hay still on the ground at the close.

V. *Bishop's Cannings.* R 7·25 in., the greatest amount recorded in any month and nearly three times the average; the only other fall

exceeding 7 inches occurring in October, 1875. A disastrous month; no corn carried.—*Compton Bassett.* The wettest month on record (8·19 in.) the wettest previously being October, 1875, with 7·66 in. *Babbacombe.* Cold, damp, cloudy, stormy and very wet. Showery from 2nd to 5th, 9th to 13th, 17th to 22nd, and 24th to 31st. Cold from 3rd to 7th, 17th to 21st, and 24th to 31st; rather warm from 13th to 15th. R more than two and a half times the average, and the greatest in August for 27 years. The temp. exceeded 70° on only three days, and the absolute max. has only once been as low, viz., in 1879.—*Tavistock Public Library.* R 5·65 in. above, or more than twice, the average of 49 years.—*Rousdon.* The wettest August since 1884. This month's R has increased every year since 1886.—*Hatherleigh, Broomford Manor.* The wettest month for 12 years, R 8·63 in.—*Littleham.* R 7·67 in. More than twice the average and the greatest recorded in August in 15 years. *Crewkerne, Bincombe House.* Wet, cold and cloudy with S. to S.W. winds.—*Stowell Rectory.* R the greatest recorded in August; mean temp. about the average.

VI. *Bristol, Over Court.* R fell on every day except five; total 6·72 in.—*Further Barton.* Very wet, with frequent distant T. No heat; wind chiefly S.W.; harvest only commenced towards the close.—*Ross, The Graig.* Very wet without hot days; scarcely any corn gathered at the close and much hay still in the fields. Only five days with temp. above 70°. The only wetter Augusts recorded were 1878 and 1879.—*Burton, Derby Road.* Wet and very cold, R 1·56 in. above the average. Mean temp. 3° below the average. The coldest August except two (1881 and 1885) during 16 years. First frost of the winter, on the grass on 30th.

VII. *Ketton Hall.* Very unsettled, with much R, and T on four days. Only four bright days.—*Brattleby.* Wet and miserable, only seven days without R. Some TSS in places, and at the end, hurricanes of wind which swept leaves and fruit from the trees and uprooted the trees themselves.—*Southwell, Grants.* Very wet and cold, the temp. reaching 70° on only three days. *Hodsock Priory* Very dull, rather cold, showery and windy; the nights were mild but there were no hot days. Much less sunshine than in any of the previous ten years, except 1885. R ·59 in. above the average. Sunshine 54 hours less than the average.—*Elvaston.* Remarkably low temp.; many storms and much wind.

VIII. *Knutsford.* At least a few drops of R fell on every day in August, and on almost every day from July 15th to September 1st.

—*Walton, Breeze Hill.* Rainfall about 2·50 in. above the average.—*Blundellsands.* R 7·39 in. The greatest fall in any month since observations commenced.—*Southport.* R the greatest in any month since observations commenced in 1871.—*Elswick Lodge.* R 9·54 in.; more than twice the average of 19 years, and the greatest in any month during the time.—*Garstang, Calder Mount.* R 9·63 in.; the previous wettest month in 24 years being September, 1872, when 9·51 in. fell. —*Seathwaite Vicarage.* The most rainy August remembered, with scanty sunshine and low temp.

IX. *Halifax, Bents, Norland.* Very wet; R 5·95 in.—*Otterburn-in-Craven.* R 9·12 in., the largest fall recorded in any month during 20 years.—*Driffield, York Road.* Exceptionally wet and dull, with frequent heavy R, doing immense damage to corn crops and hay. Sunshine greatly deficient.—*Scarborough.* Very dull and damp, and very little sunshine.—*East Layton.* A very bad month all through, the ground completely saturated.

X. *Ulpha Vicarage.* Unprecedented for continued unseasonable weather; temp. uniformly low.—*Nether Wasdale.* Wet and cold; all agricultural operations much impeded.—*Hassness.* The greatest R in any month since observations commenced in 1886.—*Keswick, The Beeches.* Cold and showery throughout, the temp. reaching 70° on only two days. Very heavy R occurred on 24th (1·92 in.), 25th (2·25 in.), and 31st (1·68 in.), causing on 25th and 31st the greatest floods remembered in August.—*Keswick, Shu-le-Crow.* The wettest August recorded, R 12·49 in. on 24 days. In the two days, 24th and 25th, 4·59 in. fell.—*Cockermouth, Whinfell Hall,* R 11·54 in.; $2\frac{1}{2}$ times the average of 34 years, and during that period only twice exceeded—viz., in November, 1861, and November, 1877.—*Brandlingill.* The largest R known in any month, 11·65 in.—*Uldale Rectory.* Exceedingly wet and unpleasant; never more than two dry days together; much hay utterly spoiled.—*Kirkby Lonsdale, Casterton.* Total R 13·67 in., of which 7·50 in. fell in the last week, and 4·97 in. on 24th and 25th.—*Kendal, Hill Top.* Very wet; R 12·19 in.; on 24th and 25th 5·24 in. fell.

XI. *Newport, Crindau House.* Excessive R in the latter half of the month.—*Llanfrechfa Grange.* The wettest August in 26 years (R 8·75 in.), the only others approaching it being 1878 and 1879—8·24 in. and 8·33 in. respectively.—*Llandovery.* The wettest month recorded.—*Douglas, Victoria Road.* Cold, wet and stormy, is but an inadequate description of the terribly bad weather of August. The

temp. was deficient throughout. 7·56 in. of R fell on 23 days, being 4·25 in. more than the average, the greatest fall recorded in August, and only ·08 in. less than the fall of the first five months of the year.

XII. *Langholm.* The wettest month recorded in nearly 30 years. R 11·45 in.; the falls exceeding ·50 in. on 9 days, and on the 31st reaching 2·26 in.—*Melrose, Abbey Gate.* R 67 per cent. above the average; mean temp. slightly above the average. Wind N. or E. on 13 days, S. or W. on 17 days; moderate in force except on 25th, 26th and 31st, when S.W. gales blew.

XIII. *Edinburgh, Blacket Place.* R very heavy and persistent; sunshine much below the normal, but only one day sunless throughout.

XIV. *Pinmore.* R the greatest in August since the observations commenced in 1866.

XVI. *Dollar.* Cold and wet throughout.—*Stronvar.* R above the average; very little sun; crops very backward.—*Coupar Angus.* R 2·28 in. above, or nearly twice, the average. No periods of excessive heat or cold occurred; the night temp. maintained the average, but the day temp. was low owing to R and absence of sun.

XVIII. *Ben Nevis.* A month of persistent R though without any remarkably heavy fall in 24 hours.—*Glenaladale.* Wet, calm and rather chilly.—*Drumnadrochit.* The wettest August in 6 years, excepting 1889.

XIX. *Scourie.* R much above the average; all crops suffered.—*Watten, H.R.S.* Wet, with little sun.

XX. *Coolkelure.* Unusually wet and stormy.—*Darrynane Abbey.* Cold and wet. Harvest very backward and much blight in potatoes.—*Derry Castle.* Excessively and continuously wet, only two rainless days. R 10·36 in., 145 per cent. above the average. Not only the wettest August, but the wettest month recorded, June 1878 being the next wettest with 9·09 in. Hundreds of tons of hay rotting in the fields, and hundreds of acres of corn uncut at the close.—*Hurdlestown.* The wettest month recorded in seven years, the R being 4·22 in., and rainy days six, above the average. Great floods in many places Frosts on 3rd, 6th and 28th.—*Miltown Malbay.* The worst and wettest August remembered, the R (9·36 in.) being the greatest in any month during the 17 years recorded.

XXI. *Kilkenny, Inch House.* Overcast, wet and stormy, with low temp.—*Moynalty, Westland.* R 7·67 in.; more than double the average, and the greatest fall in any month during 16 years.—*Athlone, Twyford.* R 7·67 in., the greatest fall in any month during 17 years.

XXII. *Tuam, Gardenfield.* Excessively wet; the wettest month in 14 years.—*Lawderdale.* Very wet and unseasonable; much damage to crops.

XXIII. *Arley.* The wettest month on record; much damage done to crops.—*New Barnsley.* Cold, wet and miserable; most disheartening to farmers.—*Stewartstown.* R above the average, doing much injury to crops.—*Dungannon, Rockdale.* The wettest August (R 5·09 in.) since observations commenced in 1875 excepting 1889, when 5·76 in. fell.—*Carrablagh.* Cold, wet and unseasonable; very few sunny periods.

SEPTEMBER.

I. *Muswell Hill.* R only 43 per cent. of the average of 19 years. —*Finchley, Etchingham Park.* Though the R was considerably less than the average, the character of the weather was wet rather than dry, owing to R falling in small quantities on 16 days. The finest period was from 4th to 13th when there was some real summer weather.

II. *Haslemere, Hazelhurst.* Sunny from 8th to 13th, then rainy.— *Abinger Hall.* A fickle month; one week lovely, followed by constant change, making the ingathering of corn tedious.—*Wallington.* Much warmer and drier than usual, and exceedingly favourable for the harvest.—*Tenterden.* R ·66 in.; with one exception the only September since 1865 with less than an inch.—*Hythe.* Very fine and seasonable.—*Keston Tower.* Pleasant, with a good deal of wind, but very little R in the aggregate, although there were many rainy days. The second week was very warm, the 12th being the hottest day of the year.—*Leysdown.* The most genial month of the year.—*Brighton, Prestonville Road.* Very fine and warm from 8th to 13th, and again towards the close.—*Lewes, Iford.* Showery, with the exception of the second week.—*Borden Wood.* Fairly dry, but little sunshine; harvest much prolonged and grain damaged.

III. *Throcking Rectory.* R 1·32 in. below, or less than half, the average; mean temp. 2°·1 above the average. Bright sunshine 166 hours.—*Bloxham Grove.* From 7th to 16th fine and drying, with five days very hot; but from thence to the close, R fell frequently.— *Northampton.* R less than one-fifth of the average.—*Fulbourn Asylum.* The early part fine and hot, the week from 8th to 15th being the hottest period of the whole year.

IV. *Walthamstow.* Dry, warm and bright as a whole. A very hot

spell from 7th to 14th.—*Colchester, Surrey Villa.* The driest September in 8 years.—*Sudbury, Friar's Street.* Rather dry. Fine and seasonable at the commencement; rather unsettled after the 15th. —*Ipswich, Bishop's Hill.* A fine, dry month; R 1·31 in. below, or less than half, the average.—*Woodbridge, The Cedars.* Brilliant weather at the beginning of the month.—*Rendlesham Hall.* Fine and warm, with fresh winds at the finish, but high temp.—*Diss.* Heavy gales from S.S.W. on 1st and 2nd; then brilliant summer-like weather till 14th, when there was a TS, and the days became cooler. The third week was wet, but the month ended with bright weather.—*Yarmouth.* The driest September in 8 years, and very fine and warm.

V. *Bishop's Cannings.* Beautiful weather from 8th to 12th, and on 28th and 29th; R ·73 in. below the average.—*Hazelbury Bryan.* The early part of the month was fair, the week from 6th to 13th being specially fine and warm.—*Babbacombe.* An average month as to temp. and rainy days, but the total R less than one-third of the average. Showery from 13th to 21st and 24th to 26th, fine and sunny from 8th to 12th.—*Stowell Rectory.* Moderate R, and high mean temp.

VI. *Ross, The Graig.* Only three drier Septembers have occurred in 33 years, this being the sixth in succession with less than the average R. From 9th to 13th the days were fine and very hot, the 10th, 11th, and 12th having a max. temp. above 80°.—*Pembridge, Marston.* The second week bright and hot; the rest cold and damp. *Burton, Derby Road.* Dry and warm; R 1·16 in. below, and temp. 1°·8 above, the average. No frosts whatever.

VII. *Ketton Hall.* Remarkable for the warm 9 days from 7th to 16th, which was the hottest period of the year.—*Brattleby.* Fine and hot up to the 20th; from 23rd to the end fairly fine and dry.— *Southwell, Grants.* Warm and dry; R about two inches below, and temp. 2° above, the average. Very little R fell till 19th.—*Hodsock Priory.* Very fine, dry and warm; harvest practically finished by the end.—*Derby, Elvaston.* No heavy rains, but frequent light showers; very warm during the second week.

VIII. *Southport.* R quite up to the average; air temp. high; no frost. Much cloud, and a good deal of haze. A marked deficiency of ozone.—*Seathwaite Vicarage.* A rainy month, with the heaviest fall on one day yet recorded, viz., on 30th, 3·27 in.

IX. *Halifax, Bents, Norland.* Very hot from 10th to 13th, the max. in Stevenson screen being above 80°.—*East Layton.* A very hot and sultry week occurred from 9th to 15th.

X. *Ulpha Vicarage.* Only four days of fine summer weather since the middle of July, viz., 9th to 12th.—*Nether Wasdale.* On the whole stormy, but the strong winds enabled a good deal of hay to be housed.—*Keswick, The Beeches.* Cold and showery, with the exception of a spell of very fine hot weather from 8th to 13th.—*Keswick, Shule-Crow.* Very wet; on five days the fall exceeded an inch.—*Uldale Rectory.* With the exception of five days from 9th to 14th, which were fine and warm, the weather was mostly dull, cold and disagreeable.—*Ambleside, Nook Cottage.* Another very wet month, the total fall for August and September being 25·73 in., or only a tenth of an inch less than the fall in the first seven months of the year.

XI. *Llanfrechfa Grange.* R fell on an unusual number of days, and although the total fall was considerably below the average, the damp state of the atmosphere injured the harvest.—*Llanvihangel Court.* R frequent though slight, the absence of spells of dry weather making it a bad harvest month.—*Llandovery.* A wet month for the late hay and corn harvest, much corn being uncut at the end.—*Douglas, Victoria Road.* The terribly bad weather which set in on August 8th lasted till September 8th, followed by 11 days of fine, warm, summer-like weather, which broke up at midnight on 19th, and in 63 hours 3·26 in. of R fell. Violent S.W. gales continued with little intermission from the 24th to the end.

XII. *Melrose, Abbey Gate.* Very changeable, storms of wind and R being frequent for the time of year. Mean temp, 2° above the average. R 2·61 in. above, or more than double, the average. Wind S. or W. on 26 days.

XIII. *Edinburgh, Blacket Place.* Though the month was stormy and wet, sunshine was fairly abundant.

XV. *Craigend Castle.* Very wet and stormy, R 9·20 in.

XVI. *Dollar.* R nearly all the month.—*Stronvar.* R excessive; crops in a very bad state. Temp. above the average; hot days from 10th to 13th.—*Coupar Angus.* R on 18 days, but the total fall ·57 in. less than the average. Temp. 1°·5 above the average.

XVIII. *Ben Nevis.* An exceptionally wet month; R 43·55 in., more than double that of any other September for 8 years, and the greatest in any month. Falls exceeding 3·00 in. occurred on 6 days.—*Glenaladale.* Very wet and stormy.—*Lochmaddy.* R only once exceeded in September in 7 years, the fall being more than 50 per cent. above the average. From the 21st to the end there was an almost continuous gale from S. or S.W., being specially heavy on

25th and 26th.—*Drumnadrochit.* Very wet, the R being more than 50 per cent. above the average of five years.

XIX. *Scourie.* Only five rainless days; the crops suffered much from the constant wet.—*Watten, H.R.S.* Cold and damp, with little sun, but the total R not great.

XX. *Coolkelure.* Wet and stormy.—*Darrynane Abbey.* Wet, and on the whole, cold; harvest very backward.—*Hurdlestown.* Wet, damp and very mild, the temp. at night being little lower than during the day. R ·57 in., and rainy days three, above the average.—*Miltown Malbay.* A very indifferent and broken harvest month, with very little drying weather.

XXI. *Kilkenny, Inch House.* Most of the R fell during the first and last weeks; very fair and warm during the middle fortnight.

XXII. *Tuam, Gardenfield.* Mostly wet, but a few days after the 9th, fine and warm.—*Lawderdale.* Stormy and wet; unfavourable for harvest.

XXIII. *New Barnsley.* Though the month appeared damp almost throughout, there were twenty days on which harvest could be proceeded with.

OCTOBER.*

I. *Kensington, Edith Road.* Very wet and stormy. R 5·33 in., the largest monthly fall in eight years.—*Mount View Road, N.* The wettest October since 1882. R fell on every day from 4th to 23rd, except 9th.—*Muswell Hill.* R 6·00 in., 108 per cent. above the average, and the greatest in any October since the gauge was started in 1872.—*Finchley, Etchingham Park.* R greater than that of any other month since the observations commenced in 1885. R fell on the 1st, followed by three dry days, but from the 5th to the 22nd inclusive there were only two days without R; the remainder of the month, excepting 25th and 26th, was dry.

II. *Haslemere, Hazelhurst.* Very wet, R falling on 18 consecutive days from 5th to 22nd. Total fall 8·84 in. The streams were flooded and springs appeared in unusual places.—*Abinger Hall.* Though mild, exceedingly wet and stormy. Several large trees blown down.—*Redhill, Oxford Road.* R 7·11 in.; only two other months in 25 years have had more than 7·00 in.—*Wallington.* Comparatively warm, but very wet and stormy. The wettest October

* See also *Met. Mag.* November, 1891, p. 153–155 and 159–160.

recorded, and everything much injured by R.—*Hythe.* Very boisterous and wet; prevailing winds S. and S.W.—*Tunbridge Wells, Camden Park.* R 9·29 in.; more than thrice the average of seven years. In the ten days between the 12th and 23rd 6·17 in. fell.—*Keston Tower.* Stormy, with heavy gales from S. and S.W.; temp. much above the average, but the last three days fine and frosty. R the greatest in any month recorded.—*Sheppey, Leysdown.* Strong winds and gales prevalent throughout the greater part; R only ·44 in. below that of October, 1889.—*Brighton, Prestonville Road.* Very stormy and excessively wet up to 26th. The last five days much colder but almost cloudless. R fell on 19 consecutive days.—*Lewes, Iford.* Very wet; heavy floods and gales on 13th, 14th and 22nd.—*Wadhurst, Lower Cousley Wood.* R 3·86 in. above the average of ten years. —*Emsworth, Redlands.* Strong winds and gales from 1st to 27th; very cold, with frosty nights, from 28th to 31st.—*Highfield.* R 9·36 in., the greatest previous fall since 1878 was 7·20 in. in December, 1886. —*Southampton, Red Lodge.* R 9·18 in.; no other month in 20 years approaching this quantity.—*Alresford, Ovington.* R 10·13 in. on 24 days, the heaviest fall recorded since observations began in 1876, the next wettest month being December, 1876, when 8·02 in. fell.—*Alresford, Hinton Rectory.* R 11·22 in., nearly four times the average, the nearest approach to it in any month in 11 years being 6·30 in. in October, 1889.—*Winchester, Harestock.* Wet and windy.—*Alton, Ashdell.* R 9·07 in.; more than double the average. The wettest month in 25 years, the next wettest being December, 1869, 8·14 in.—*Headley, Arford.* The wettest month on record.—*Heckfield, Park Corner.* R (7·45 in.), the greatest recorded in any month during 21 years.— *Beaumont College.* An awful month, the worst on record here.— *Reading, Englefield.* Three falls of R, exceeding an inch in 24 hours.

III. *St. Alban's, The Grange.* R fell on 18 consecutive days from 5th to 22nd.—*Berkhampstead, Rosebank.* The wettest month on record (1856—91).—*Kensworth.* R 8·31 in., quite without parallel during 25 years observation; there were 18 consecutive wet days from 5th to 22nd.—*Throcking Rectory.* R 2·18 in. (or about 70 per cent.) above the average, and with the exception of 1882, the greatest in October in 12 years. Mean temp. 2°·7 below the average. Bright sunshine 76 hours.—*Great Marlow.* R 9·03 in.; the greatest in any month during the 13 years observed.—*Addington.* The wettest month for 21 years. Brooks ran quite full for over a fortnight, often overflowing the meadows to a great extent.—*Stony Stratford, Thornton.* R 7·07 in., the

greatest in any month during 22 years, except July, 1880, when 7·18 in. fell.—*Newport Pagnell.* R more than double the average, and, with the exception of July, 1880, the greatest fall in any month during 20 years.—*Stanton St. John's, Woodperry.* Very wet, R 6·45 in. 1·16 in. fell on the 6th, and coming when there was so much grass in the ditches, caused very heavy floods.—*Bloxham Grove.* With the exception of three fine days at the beginning and four at the end, October was remarkable for almost daily R and frequent heavy gales. —*Castle Ashby.* Very stormy and wet, with low bar. from 4th to 27th. R more than double the average, and with the exception of July, 1880, the greatest in any month since observations began in 1873.—*Northampton.* R nearly 1·50 in. above the average.—*Alconbury.* The wettest October in 8 years. —*Fulbourn Asylum.* Wet and very stormy ; R the greatest recorded.

IV. *Walthamstow.* Very wet, with severe gales and floods. Thundery in the first half, colder and calmer in the latter. A remarkable series of gales about the 10th. Temp. above the average. —*Ipswich, Bishop's Hill.* R 1·87 in. above the average, and the greatest quantity in any month during 20 years.—*Woodbridge, The Cedars.* Although the R of the month was excessive, the total for the 10 months of the year is small, and springs and ponds which had been very low, were only recovering at the close.—*Rendlesham Hall.* Fine at the beginning and finish, but gales and much R during the greater part.—*Diss.* Gales from southerly quarters blew on the 6th, 8th, 9th, 13th to 16th, 19th and 23rd. There was much R from 18th to 26th, but the last 5 days were fine and bright though colder.—*Denver.* Very stormy and very wet till the 27th. Level of low water at Denver sluice, 7 feet above the ordinary height on the 25th ; fell to 5 ft. above ordinary height by the 31st.

V. *Landford.* R 10·40 in.; more than 2·00 in. in excess of the fall in any other month during 24 years.—*Bishop's Cannings.* R nearly twice the average.—*Broad Hinton.* R 7·75 in., the greatest total fall in any month since observations commenced in 1879.—*Poole, Parkstone.* R more than $2\frac{1}{2}$ times the average of 9 years, and much the greatest in October during that period.—*Hazelbury Bryan.* R probably without parallel in this locality.—*Babbacombe.* A cold, damp, very windy and unprecedentedly wet month, with a low, unsteady bar. The R, 10·37 in., is more than $2\frac{1}{4}$ times the average, and nearly 15 times that of October, 1891. The wettest month since observations commenced in 1876. R fell on every day till 26th, except 3rd, 4th, and

24th.—*Torquay, Watcombe Park.* R 9·69 in., the largest fall recorded in any month.—*Tavistock, Public Library.* R 11·47 in.; 11·16 in. fell in 18 consecutive days.—*Rousdon.* The wettest October since 1884.—*Honiton, Ivedon.* R far in excess of that of any other month recorded but the observations extend back only to 1888. Frequent gales occurred, being specially severe on 5th, 11th, 13th, 14th, 15th and 18th.—*Penzance, St. Clare.* The wettest October (R 8·97 in.) since 1860, except 1875 and 1885.—*Stowell Rectory.* The month of heaviest R since 1876.—*Minehead, Blair.* R on 16 consecutive days.—*Wells.* The moor lands between Wells and Burnham were flooded, and many families were obliged to be taken from their cottages, in boats.—*Harptree Court.* R 10·04 in.; more than double the average of 9 years, and the greatest recorded in any month.—*Long Ashton.* More R than in any other month during 20 years; total 8·50 in.

VI. *Clifton, South Parade.* The wettest month in 39 years, excepting August, 1865.—*Dennel Hill* [*Chepstow*]. Three days on which over one inch of R fell, 23 days with a measurable quantity, and a total of 9·09 in.—*Further Barton.* R the greatest in any month since November, 1852. Violent storms, with T, occurred in the middle of the month, but after the 26th a change of wind brought clear skies and a fall of temp.—*Ross, The Graig.* R 6·70 in., the wettest October since, and including, 1818. From the 5th to the 27th R fell every day, and the river Wye was in high flood for nearly a week.—*Hereford.* Exceptionally wet; R 7·10 in., 1·72 in. falling on 5th.—*Pembridge, Marston.* Very wet; in 19 consecutive days 6·12 in. of R fell.—*Leominster, Bodenham.* Most exceptional, R 7·09in., and on two days the fall nearly reached 1·50 in.—*Burton, Derby Road.* Wet and warm; R 1·38 in., and mean temp. 1°·5, above the average. First frost of winter in the air on 31st.—*Tenbury, Orleton.* The wettest October in 60 years. The first 5 days were fine, but R fell on every day from that date to the 26th, except the 24th.

VII. *Rotherby Hall.* Very wet, R falling on 27 days and causing slight floods on 6th and 23rd.—*Ketton Hall.* Remarkable for much R and for absence of frost.—*Brattleby.* Wet and stormy, but mild.—*Southwell, Grants.* Very wet; R nearly two inches above the average.—*Hodsock Priory.* The first three weeks were wet and stormy, the last week fine and dry. Temp. and sunshine about the average.—*Elvaston.* Very stormy and tempestuous from 6th to 22nd; dry after the 26th.

VIII. *Seathwaite Vicarage.* Up to the 23rd, one of the most rainy

Octobers remembered. From 24th to the end, bright sunshine and frosts.

IX. *Driffield, York Road.* Very wet and stormy to the 23rd, then a quiet period to the end.—*East Layton.* Very unsettled, except the last eight days, which were fine.

X. *Whorlton.* Very wet, with little sunshine till the last week. Floods on the Tees on 6th, 7th, 13th, 14th, 15th, 16th, and 18th.—*Ulpha Vicarage.* Very rough, wet weather prevailed up to the 23rd, but the last eight days were very fine, with no wind, but ground frosts.—*—Nether Wasdale.* Very wet, but the temp. being low, the grain did not suffer so much as might have been expected, and the bright sunshine and E. winds of the last five days did wonders for the crops. —*Keswick, The Beeches.* The long succession of storms and heavy R continued unbroken till the 20th, after which the weather was almost cloudless.—*Uldale Rectory.* Strong westerly winds prevailed, accompanied by wet, till the last week, which was splendid.

XI. *Llanfrechfa Grange.* R and rainy days excessive, and unusual floods on the low lands.—*Llanvihangel Court.* Very stormy and rainy; wind mainly from S.W., with severe gales, doing much damage to trees.—*Swansea, Sketty.* The wettest month on record; R 11·79 in.—*Llandovery.* The wettest month recorded.—*Douglas, Victoria Road.* The strong S.W. winds, terrific gales, and almost daily rains which have prevailed since August 8th, continued to October 24th, when the wind became N.E., with very fine, bright, but colder weather. The gales from 12th to 21st were of unusual violence.

XII. *Melrose, Abbey Gate.* The first three weeks were very wet and unsettled, the end very fine. R ·12 in. below the average.

XIII. *Edinburgh, Blacket Place.* The first three weeks wet and unsettled, the remainder dry, with abundant sunshine.

XV. *Craigend Castle.* The first half very wet; the second half dry and mild.

XVI. *Stronvar.* Mild with excessive R; meadows continually flooded.—*Coupar Angus.* R an inch above the average.

XVIII. *Ben Nevis.* The first three weeks were very stormy with heavy S; the last week was very fine and settled. S fell on 14 days.—*Glenaladale.* Generally very wet, but the last eight days exceptionally fine.—*Lochmaddy.* R the greatest in any month from January, 1884. Excepting on 4th, the wind blew with the force of a gale from S. or S.W. from 1st to 23rd. The last eight days were exceptionally fine, with almost no wind.

XIX. *Watten H.R.S.* The first half, a series of gales; the last calm, cloudy and fine.

XX. *Coolkelure.* The first three weeks very wet and stormy, the last week fine.—*Darrynane Abbey.* Very wet to the 23rd, falls exceeding an inch, on three days. The last week dry and cold, with E. wind.—*Derry Castle.* Stormy, tempestuous, cold and wet until the 22nd; afterwards dull, but fine and favourable with fogs at night. R 9 per cent., and rainy days three, above the average.—*Miltown Malbay.* For the first three weeks the prevailing winds were S.W., and the weather could not well have been more boisterous; this accompanied by almost incessant cold R and H prevented all out-door work. From the 22nd to the end was the only fair weather for harvest.

XXI. *Kilkenny, Inch House.* Very unsettled to the 20th, with frequent gales between the 4th and 18th. The last 11 days very fine and bright.

XXII. *Tuam, Gardenfield.* Very wet, except the last week, which was dry and frosty; the greatest R in October since 1870.—*Lawderdale.* From 1st to 23rd, wet, stormy and unseasonable; from 24th to the end dry and mild.

XXIII. *Lurgan, Belle Vue.* The brightest and sunniest month of the year; even in the first half, when there was heavy R, the sun was almost always shining when it was not actually raining.—*New Barnsley.* The R in the first 15 days was within ·01 in. of the average for the whole month, but there were 17 days on which the sun shone nearly all day. Nothing better could be desired than the weather of the second half.—*Buncrana, Rockfort.* The last ten days were very favourable.

NOVEMBER.

I. *Muswell Hill.* R 22 per cent. less than the average of 19 years. R fell on 11 consecutive days from 9th to 19th.—*Finchley, Etchingham Park.* R below the average, but the number of rainy days was large, so that the month seemed wet.

II. *Abinger Hall.* Mild and open, though very stormy at times.—*Wallington.* Very wet and cold, with a great fall of the bar. from 30·626 in. on 5th to 28·522 in. on 11th.—*Hythe.* Dull, wet and unsettled.—*Keston Tower.* Dull, and on the whole, rainy; not much fog.—*Brighton, Prestonville Road.* Fine at first, but unsettled and wet after the first week; generally mild, except towards the end, when

some sharp frosts occurred.—*Lewes, Iford.* Mild and wet, one of the heaviest gales remembered, on 11th.—*Emsworth, Redlands.* The first fourteen days rough ; the last fortnight sunny, without much frost.

III. *Throcking Rectory.* R ·55 in. below, and mean temp. 2°·8 below, the average. Bright sunshine only 23 hours, 18 days being absolutely sunless.—*Northampton.* R ·02 in. above the average ; wind S. or S.E. from 1st to 9th, S.W. and W. afterwards.—*Fulbourn Asylum.* Unusually mild ; such frost as there was, slight and temporary. No S ; several strong gales.

IV. *Walthamstow.* Mild and wet as a whole. Great gales about 10th and 11th, and floods in low-lying parts. The end of the month cold, gloomy and damp.—*Ipswich, Bishop's Hill.* R half an inch less than the average ; much dull, misty weather and wet fog ; a few slight frosts.—*Woodbridge, The Cedars.* The ponds still low and the springs weak at the end of the month.—*Diss.* A dull, sunless month, but not cold till the last few days, when the weather was raw and chilly, but there were few frosts even at night.—*Denver.* Very fine at the beginning of the month, and the weather on the whole was open, but so damp as to hinder wheat sowing.

V. *Bishop's Cannings.* R nearly an inch below the average.—*Hazelbury Bryan.* Very trying for farm work, the ground saturated with wet.—*Babbacombe.* A rather cold, variable, wet and damp month, with unprecedentedly large baric range. No R was measured in the 12 days ending the 7th, but in the following 7 days 3·59 in. fell, after which it was generally showery till the 30th. The first frost of the season occurred on the 23rd.

VI. *Further Barton.* Changeable, without much cold until the last week.—*Burton, Derby Road.* A dry month ; R ·89 in. below, and temp. slightly above, the average.

VII. *Ketton Hall.* Very foggy, with many showers ; wind E. during the first half, mostly W. during the remainder.—*Brattleby.* Wet, but not severe, as far as frost goes.—*Southwell, Grants.* Very damp and dull ; fine to the 8th, then R almost every day, but no excessive falls.—*Hodsock Priory.* Dull and rather quiet ; a little wetter and colder than the average. On the 11th the bar. fell to 28·325 in., the lowest recorded here during 13 years, with the exception of December 8th, 1886.—*Willington.* Cold, with frequent R.

VIII. *Southport.* R rather above the average, and mean temp. low. The calmest November recorded ; wind movement less than half the

average, and mainly from S. and E., causing haze, fog, or mist on 29 days.—*Seathwaite Vicarage.* A sad, rainy month, the R being far in excess of the average.

IX. *Driffield, York Road.* Very dull and wet, with extraordinary low bar. on the afternoon of the 11th. R above, and sunshine below, the average.—*East Layton Hall.* Rather damp, with little or no frost until the end.

X. *Whorlton.* Chilly and dull, with much R in the middle; the last week cold.—*Ulpha Vicarage.* After the 6th the weather was generally damp and dark, with occasional night frosts. No severe weather, or S on the ground.—*Keswick, The Beeches.* The first week very fine; from 7th to 19th very wet, the remainder alternately fine and stormy, with one or two hard frosts.

XI. *Douglas, Victoria Road.* The fourth wet month in succession, with, however, many beautifully bright days, and a marked absence, on the whole, of November gales.

XII. *Melrose, Abbey Gate.* Very changeable and unsettled; R ·70 in. less than the average.

XVI. *Stronvar.* Temp. high, but no sunshine.—*Coupar Angus.* R almost an inch above the average of 11 years; mean temp. about 0°·5 below the average.

XVIII. *Glenaladale.* Very fine, with a great prevalence of calm weather.—*Drumnadrochit.* R less than half the average of 5 years.

XIX. *Watten H.R.S.* The first week dry, mild, and fine; stormy and rainy in the middle, and the latter part dry, but dull.

XX. *Darrynane Abbey.* The first few days very fine; the remainder changeable, especially the latter half.—*Derry Castle.* The opening week dark and dull, but mild; stormy and showery, with frequent fogs and frosty nights from the 8th to the close. R 26 per cent. and wet days 1, below the average of 10 years.—*Hurdlestown.* Very favourable, the R being 1·01 in., and the rainy days 3, below the average of 7 years.—*Miltown Malbay.* A good open month, with a fair amount of R, which generally fell at night.

XXI. *Kilkenny, Inch House.* Fine, but very cold, with much bright weather, but some furious gales.

XXII. *Lawderdale.* Cold and harsh, with very low bar. on 11th and 13th.

XXIII. *New Barnsley.* Very fine till the 8th; between that date and the 13th exactly two inches of R fell, and during the remainder occasional frosts alternated with the R.

DECEMBER.

I. *Kensington, Edith Road.* Very warm except from 18th to 25th, when it was intensely cold.—*Mount View Road, N.* Severe frost in the week ending 25th, the mean temp. of which was only 25°·7.—*Muswell Hill.* R 57 per cent. above the average of 19 years. More than three quarters of the total, fell in the first half.

II. *Haslemere, Hazelhurst.* Heavy R early; gales from 10th to 15th; white frosts from 17th to 24th.—*Abinger Hall.* The first half very showery and mild; then ten rainless days with fogs and frost, at times severe.—*Wallington.* An extraordinary month. Unusually warm, very wet, with a total absence of S, very little frost, and unusually heavy gales.—*Hythe.* From 1st to 17th very stormy and wet, from 18th to 24th frosty and fine, then dull and wet to the end. —*Keston Tower.* From 1st to 17th stormy weather prevailed, with temp. much above the average. Severe S.S.W. gales occurred on 7th, 10th and 13th, which uprooted many trees and did great damage. Hard frost then prevailed for seven days to Christmas day when a thaw set in, and the last week was stormy, rainy and mild. —*Sheppey, Leysdown.* Mild and damp except from 19th to 25th.—*Brighton, Prestonville Road.* Wet and mild to the 16th, then frost to the 25th; the month closing mild and unsettled.—*Lewes, Iford.* Mild and wet till the 17th, then severe frost till the 25th, afterwards mild and wet.—*Headley, Arford.* Wet, except the eight days from 17th to 25th when hard frost prevailed.—*Beaumont College.* The first half very stormy and wet, then frost till the 26th.

III. *Throcking Rectory.* R 1·62 in. (or 80 per cent.) above the average. Bright sunshine 47 hours; 14 days absolutely without sunshine.—*Bloxham Grove.* R fell daily till the 15th, but on three days it was fine and pleasant for some hours. On 17th frost set in with considerable severity and continued till the evening of 25th. From 26th to 30th R again fell daily.—*Fulbourn Asylum.* Very windy except during the third week, when it was calm and very cold, with very high bar., and extremely dense fog. No S throughout. The first fortnight unusually mild.

IV. *Walthamstow.* December opened dull and very mild with saturated atmosphere. Heavy R and severe gales about the 14th. Sharp frost and dry fogs of great density prevailed between 18th and 25th, then mild, wet weather to the end of the month.—*Colchester, Surrey Villa.* The wettest December in eight years.—*Sudbury, Friar's Street.*

Unsettled at the commencement with gales at times; cold with sharp frosts at night from 16th to 26th, then milder to the close.—*Ipswich, Bishop's Hill.* The first half very wet and stormy; then a calm week with frost and fogs, and the remainder very mild. R 1·11 in. more than the average.—*Diss.* Only two rainless days in the first 17. Heavy gales from S.E. or S.W. on 7th, 9th, 10th, 11th, 12th and 13th, or rather, one nearly continuous gale during the seven days. From 19th to 24th inclusive, there was sharp frost and good skating, the meadows being flooded. The weather was extremely warm and damp up to the 17th, and during the last week, when R fell daily.—*Denver Rectory.* Remarkably warm at the beginning and end; high winds in the second week; very cold in the third week.

V. *Hazelbury Bryan.* Very wet and the ground saturated. Floods in many parts of the country.—*Babbacombe.* A warm, wet, damp, and very stormy month. R fell every day from 1st to 15th, and 25th to 31st, but none fell in the nine days, 16th to 24th. It was warm from 1st to 10th, 12th to 17th and 29th to 31st; cold from 19th to 25th. The number of days on which gales blew (14) was the greatest in the 16 Decembers recorded.—*Crewkerne, Bincombe House.* Stormy and mild, with one week of bright cold weather with sharp frost.—*Stowell Rectory.* A warm month; mean temp. 3°·6 above the average.

VI. *Cirencester, Further Barton.* Almost continuous R in the first two weeks, accompanied at intervals by violent gales. On the 16th sharp frost set in, lasting till the 25th and being severe on some days. The last week was wet and warm.—*Ross, The Graig.* Very warm except from 17th to 25th inclusive, during which time dense fogs and severe hoar frosts with very low temp., prevailed.—*Burton, Derby Road.* On the whole wet. R ·94 in. above the average. No R from 17th to 24th. From 1st to 16th warm, then cold. Skating from 20th to 25th; the river Trent frozen in still places. First fall of S on the 11th.

VII. *Brattleby.* Very wet and mild to the 16th, when sharp frost set in, with much rime, and skating was in fashion for some days.—*Southwell, Grants.* The wettest December since 1882, though no R fell during the frost which lasted from 15th to 27th.—*Hodsock Priory.* The first fortnight was mild, wet and stormy, then came a week of very sharp frost up to Christmas, when a thaw set in, and the last week was mild and rather stormy. During the five days ending on 25th, the temp. did not rise above 26°.—*Elvaston.* Very mild, with

frequent heavy gales until 17th, severe frost from 18th to 25th.

VIII. *Southport.* The wettest December with one exception (1880) in 20 years; only 15 hours of sunshine.—*Seathwaite Vicarage.* The month was marked by unusually heavy R in the earlier half, 10·23 in. falling in eight days; and by short but unusually severe frosts in the latter half.

IX. *Malton, Norton.* Rainy in the first half; frosty in the latter part.—*Driffield, York Road.* Warm and wet to the 17th, then cold to the 25th. Wet and unsettled towards the close.—*Thixendale.* Opened mild, but ended with severe weather.—*East Layton.* The early part of the month very wet; severe frost from 16th to 26th, and R daily from 26th to the close.

X. *Ulpha Vicarage.* Except from 19th to 25th when it was generally frosty, there were few periods of 24 hours, without R.—*Keswick, The Beeches.* The first 15 days were very wet, the R being 11·13 in. Hard frost prevailed from 17th to 26th, and from the 26th to the end was wet and stormy.—*Keswick, Shu-le-Crow.* From 4th to 12th 9·06 in. of R, the fall exceeding an inch on five out of the nine days. —*Uldale Rectory.* The early part of the month was very wet and changeable, but from 16th to 27th it was fine and frosty.

XI. *Newport, Crindau House.* The first 15 days very wet, then 9 days of severe frost, and the remainder very wet again.—*Llandovery.* Very wet and full of storms and gales.—*Llanderfel, Palé Gardens.* The wettest on record, R 10·42 in.—*Douglas, Victoria Road.* The wettest December recorded, with strong S.W. winds and gales, of almost daily occurrence.

XII. *Langholm.* With the exception of August, the wettest month in nearly 30 years. R 11·10 in.; on 9 days the fall exceeded ·50 in. —*Melrose, Abbey Gate.* Very wet, except from 17th to 25th, when severe frosts and fogs prevailed. R 3·76 in. above, or more than double, the average.

XIII. *Edinburgh, Blacket Place.* The wettest December since 1852.

XV. *Craigend Castle.* Dull, cold, and very wet; very little sunshine.

XVI. *Dollar.* The first fortnight very wet and dull, the third week fine and quiet, and the fourth, cold.—*Stronvar.* Wet, but mild, and very changeable; one week of frost, but not severe.—*Coupar Angus.* R slightly above the average; frost on 18 nights.

XVIII. *Lochmaddy.* On the whole exceptionally stormy, even for December.

XIX. *Watten H.R.S.* Wet, open, and very variable; no lasting frosts.

XX. *Coolkelure.* Extraordinarily wet and rough; R every day but from 19th to 24th inclusive.—*Cork, Clarence Place.* Chiefly remarkable for excessive R; there was also a considerable amount of fog.—*Darrynane Abbey.* Constantly wet, except from 19th to 24th, which interval was dry, with slight frosts at night.—*Mobarnane.* The wettest period observed here, 4·33 in. of R falling on 8 out of the first 15 days.—*Derry Castle.* The wettest December recorded here, the total being more than twice the average of last decade; the fall from 1st to 15th (8·25 in.) is also the heaviest recorded in 15 days.—*Hurdlestown.* R 1·85 in. and rainy days 3, above the average of 7 years. Great floods occurred during the early part of the month; all the lakes in E. Clare were higher than they had been for 20 years, and much damage was done to roads.—*Miltown Malbay.* With the exception of 8 days, from 17th to 24th, excessively wet.

XXII. *Tuam, Gardenfield.* The wettest December in the 14 years recorded.—*Lawderdale.* Very wet and stormy, excepting from 16th to 24th.

XXIII. *New Barnsley.* The month opened dull; from 4th to 15th 4 inches of R fell; from thence the R was very small, and the weather variable.

OBSERVERS' NOTES ON THE YEAR 1891.

ENGLAND.

DIVISION I.—MIDDLESEX.

KENSINGTON, EDITH ROAD.—A very cool year, remarkable for the great number of rainy days (190), 119 occurring in the second half of the year. An absolute drought of 28 days occurred from February 7th to March 6th, and a partial drought of 35 days from January 31st to March 6th, with ·07 in. of R.

NORFOLK TERRACE, W.—May excepted, the first six months of the year were dry; no R fell between January 31st and March 7th. The latter half of the year was exceptionally wet, the R being continuous, without excessive falls.

ROSLYN HOUSE, N.W.—A dull, cheerless year. February cold and dry, and less than the average R in the first six months. August and October very wet. Four days at Christmas dark as night, with thick fog.

MOUNT VIEW ROAD, N.—The latter half of the year was extremely wet, 20·76 in. of R falling on 115 days, while only 9·75 in. fell in the first six months. No R fell between January 31st and March 7th.

MUSWELL HILL.—R 1·22 in., or about 4 per cent. above the average of 19 years; but the extremes of drought and of excessive wet were very marked. A drought of 34 days commenced on February 1st, this being the only instance of a rainless calendar month in the 20 years observed. The dry character of the season lasted for the first six months, while the last six months were very wet, more than two-thirds of the year's total falling in the second half.

FINCHLEY, ETCHINGHAM PARK.—Though the R of the year was not excessive (two inches above average), its unequal distribution was remarkable. An absolute drought of 34 days occurred from February 1st. The first half of the year was dry (9·30 in. on 69

days), and the second half wet (20·98 in. on 112 days). February, April, June, September, and November all showed a considerable deficiency, and May, July, August, October, and December a considerable excess.

DIVISION II.—SOUTH EASTERN COUNTIES.

CRANLEIGH, HALL PLACE.—A most exceptional and trying year. R about three inches above the average, but the six months when it was wanted were unusually dry, and all the rest of the year was abundantly wet.

ABINGER HALL.—The year opened very cold, and was very dry till midsummer; the remainder of summer was cooler and moister. August and October were very wet.

GODALMING, HASCOMBE.—Up to the middle of July the R was four inches below the average; then with hay-making and harvest came the R, and it fell almost without intermission to the end of the year.

GODALMING, CHARTERHOUSE.—Out of the total of 32·50 in., 23·24 in. fell in the last six months.

THE BOURNE VICARAGE.—The greatest R since 1880. February and April remarkably dry; August and October abnormally wet.

REIGATE, RINGLEY MEAD.—Winter continued till late into the spring. February was unusually dry, while October was the wettest for 10 years. A wet and cold summer and very wet autumn, there being 62 wet days in the last three months.

REDHILL, OXFORD ROAD.—R 5·63 in. above the average of 25 years. In the first six months 10·51 in. fell, showing a deficiency of 2·80 in., while in the second half-year 26·06 in. fell, showing an excess of 8·43 in. Rainy days 13 above the average.

REIGATE, DOODS.—R 6·01 in. above the average of 10 years, and the greatest fall in that period. A great deficiency occurred in the first half, only 10·03 in. falling, and a great excess in the latter half, when 25·25 in. fell.

KENLEY, INGLESIDE.—R very unevenly distributed, the first six months were dry, especially February, while during the second six months 27·44 in. fell or 73 per cent. of the total for the year. October very wet, R 7·12 in. An unsettled cold and wet summer.

BANSTEAD, THE LARCHES.—A year of extremes, but a wet one. February was almost rainless; while August and October were remarkably wet.

WALLINGTON.—An extraordinarily wet year, the total R being 6·07 in. above the average of five years.

BEDDINGTON.—The wettest year since observations began in 1881. No R fell from January 31st to March 7th. The driest February, and the wettest August and October, recorded.

TENTERDEN, SUMMERHILL.—The first half dry and very cold, vegetation much retarded. The second half wet and still cold with a great many gales of wind.

BENENDEN, EAST END.—Spring cold and backward; another summer with abundant grass, the fourth in succession; harvest damaged by the wet August; a bad autumn for wheat sowing.

TENTERDEN.—January was exceedingly cold; February very dry, only one day with R., none falling from February 7th to March 6th, but fogs and dews were heavy from 18th to 25th. From April 5th to May 16th, and September 1st to 30th, no day's fall amounted to ·25 in. September had less R than in any year since 1865. The wettest periods were in August and October, the latter half of January and May, and the first half of December. The week ending 15th was dry in eight out of the first nine months, but in March the extraordinary S fall of 9th and 10th, blocked many roads with deep drifts. There were 73 frosts in air, 107 on ground, about the same as in 1890; no S after March. TSS numerous.

CRANBROOK, HARTLEY.—R 1·71 in. above the average of 25 years, the previous 8 years all having less than the average. No R at all fell from January 31st to March 7th, the ·05 in. registered being white frost. The fall in April was the smallest in that month except (1870) while August was the wettest recorded (5·16 in.), and September the driest (·58 in.). The October fall (6·60 in.) has only twice been exceeded.

TUNBRIDGE WELLS, CAMDEN PARK.—R the greatest recorded in 8 years, and 10 inches above the average of that period. There were no fewer than 5 months in which the R was abnormal, viz., February, April, May, August and October. The February fall was only ·12 in. and the smallest recorded in any month, while the October fall was three times the average; in the 10 days from the 13th to the 22nd, 6·17 in. fell. The fall in April was 2·10 in. below the average, the fall in May 1·88 in. above, and the fall in August 2·54 in. above the average, and all these monthly falls are the extremes of the 8 years, 1884 to 1891.

TUNBRIDGE WELLS, FERNDALE.—The heaviest R since 1879 inclusive.

ASHFORD, BETHERSDEN.—February dry, and August and October wet. The fine dry September alone saved the harvest.

CANTERBURY, HARBLEDOWN.— A wet, cold and unpleasant year.

KESTON.—R five inches in excess of that of any of the preceding 9 years.

KESTON TOWER.—A remarkable year. The severe frost which began November 27th, 1890, continued until January 29th, and in February there was a total absence of R. A cold late spring was followed by a wet summer; the autumn also was very wet, the amount of R in October being 6·87 in. December was rainy with heavy gales, although there was a week of severe frost and fog. Total R the highest on record.

RECULVER, BROOK.—The long frost broke up on January 22nd. February was the driest month ever recorded, from which time, until the third week in June, all went fairly well, but the subsequent heavy R, low temp., and gales, were very trying, and the many rainy days in August were disastrous.

HAYES, LAYHAM'S FARM.—Exceptionally dry periods in February and March, and very heavy rainfalls in July, August, October, and December. February foggy, but no R. Many TSS in July and August, and several gales in the latter part of the year.

MARGATE, APSLEY HOUSE.—February was rainless, and nearly two-thirds of the total R, fell in the last six months.

BECKENHAM, FOXGROVE.—No day on which an inch of R fell, and no day of ·50 in. in the first half of the year, only eight days of ·50 in. in the latter half, and only one day over ·70 in.

ANGMERING.—Great gales on October 13th, November 11th, and again in December; more large trees fell in these three gales than has been the case for many years.

CHICHESTER, WESTGATE.—In the first six months the R was more than two inches below the average, but the fall in the last six months was much in excess.

BRAMBER, MAUDLIN.—Exceptionally wet, with much wind, but very little T.

CHICHESTER, EARTHAM.—Very dry and cold for the first six months, wretched haying and harvest weather, the last six months being very wet. Autumn and winter very windy, many large trees blown down.

MIDHURST, LYNCH FARM.—Probably the wettest year recorded here.

EASTBOURNE, WILMINGTON SQUARE.—R lower than the average of seven years, from the commencement of the year till the end of May, then it rose above, till almost the end, the greatest excess being in August. Total R 3·31 in. above the average.

BRIGHTON, BLATCHINGTON ROAD.—The features of the year were the dry February and April violent extremes of temp. in May, the persistence during the summer of cool showery weather, the gales of the last three months, and the great R of August and October. R the greatest since 1886.

BRIGHTON, PRESTONVILLE ROAD.—January was very cold, February almost rainless ; absolute drought prevailed from February 8th to March 6th. August was very wet, and October the wettest month. Sharp frost on 8 days in December. The first half of the year was dry and cold, and the latter half, mild, very wet, and stormy.

WARBLETON, THE RECTORY.—In spite of the fact that in February there was no rain, the total for the year exceeds the average by about six inches.

WALDRON, BRYCKDEN.—R 5·29 in. above the average of eight years

BUXTED, STRAWBERRY HALL.—A fine dry spring, and wet summer and autumn. Weather throughout changeable and unsettled.

MARESFIELD, FOREST LODGE.—The R presented curious divergence of the quantities registered during the respective months, from the 30 years' averages. Thus while the January fall was ·39 in., February 2·24 in., March 1·52 in., June ·38 in., and September 1·88 in. in defect ; that of March was ·48 in., May 1·17 in., July ·97 in., August 2·46 in. ; October 5·31 in., November ·22 in., and December exactly 1·00 in. in excess of that average. The experience of February, 1891, was absolutely unique in 36 consecutive years, as although ·01in. of dew or melted hoar frost was measured on 12 days, not one single drop of R fell during the entire month. March was a remarkable month ; the S which fell during the " blizzard " of the 9th drifting in places 7 and 8 feet deep in the roads in this neighbourhood, and temporarily stopping all traffic. Heavy gales blew during the first half of December, and one tremendous one on November 11th did a great deal of local mischief. The total excess of R over the average of 30 years ending 1885, was 5·36 in.

CROWBOROUGH, THE OBSERVATORY.—R 5·30 in. above the average of 21 years. It was the wettest year in Sussex since 1877, notwithstanding the rainless February and very dry April.

LOWER COUSLEY WOOD.—R 5·71 in. above the average of ten years, both August and October being more than three inches in excess of their averages for the same period.

WORTH, SOUTH HILL.—Generally cold and wet. S and frost on May 16th. February and September exceptionally dry; October exceptionally wet. Severe gale on November 10th and 11th.

TOTLAND BAY, WILMINGTON.—Very wet as a whole; R about seven inches above the average.

CHRISTCHURCH, MUDEFORD.—R in February the smallest in any month since the record commenced in 1868, and that of October the greatest. The Avon valley has not been so flooded since the winter of 1876–77.

LYMINGTON, PENNINGTON.—R 9·84 in. above the average of 3 years. In February only ·04 in. was registered, whilst in October 8·95 in. fell. During the first seven months the fall was 12·87 in., and during the last five months 24·64 in.

EMSWORTH, REDLANDS.—R 1·21 in., greater than that of any of the preceding seven years. The first six months were very dry, and the last five very wet. The small R of February and the large fall of August were remarkable.

SOUTHAMPTON, NETLEY.—R 9·25 in. above the average of 26 years.

BOTLEY, HALL COURT.—There were no fewer than five days on which more than an inch of R fell, two of which occurred in October.

ALRESFORD, OVINGTON.—R to the end of June, 10·78 in., and from July to December, 31·27 in.

ALRESFORD HOUSE.—About nine inches of S fell during the year. Very wet October (10·09 in.), and dry February (·04 in.).

ALTON, EAST TISTED RECTORY.—R nine inches above the average.

TEDWORTH HOUSE [LUDGERSHALL].—R considerably above the average. No R fell in February, and October was very wet. Total fall in the first six months 9·64 in., and in the last six, 29·83 in.

STOCKBRIDGE, COMPTON.—The spring was favourable for out-door operations. The summer was rather sunless, and towards the end very wet. The rest of the year was marked by excessive R and many gales.

ALDERSHOT.—The first half of the year was remarkably dry, only ·04 in. being registered in February, while in October 22 per cent. of the total for the year fell.

HARTLEY WINTNEY.—As the year advanced, the number of rainy

days increased, and October was unprecedentedly wet. Not much T.

HUNGERFORD, DENFORD PARK.—A year of great frost, great drought, great R, and deficiency of sunlight. R 7·27 in. above the average of 11 years. Great scarcity of water in wells, from October, 1890, to the end of September, 1891. Absolute drought from February 1st to March 6th.

READING, EAST THORPE.—R 5·76 in., and rainy days 11, above the average of 10 years.

NEWBURY, WESTON,—Remarkable for the small R during the first six months, and for the heavy fall of the last six months. The R of February was the smallest, and that of October the largest, in any month since observations commenced in 1874.

YATTENDON. The unusually dry February following a dry winter caused a great scarcity of water, most of the chalk wells and streams being dry till November; then the abundant autumnal R caused a good flow in each case, but seriously hindered the harvest.

MAIDENHEAD, CASTLE HILL HOUSE.—The latter end of the year was very wet, especially October; but February was exceptionally dry.

DIVISION III.—SOUTH MIDLAND COUNTIES.

ST. ALBANS, THE GRANGE.—R about five inches above the average and very unequally distributed, the second half of the year being twice as wet as the first half, and October being 127 times wetter than February. The summer and autumn were very wet. The longest period without R, was 14 days from February 7th to 20th, or omitting condensed fog, from February 7th to March 5th. The longest period with R every day was from October 5th to 22nd.

WELWYN, DATCHWORTH RECTORY.—R 2·68 in. above the average of ten years. Remarkable for extreme dryness in February, and great want of sunshine during October, November and December.

THROCKING RECTORY.—The most remarkable feature in the year was the all but total absence of R in February. Mean temp. 1°·4 below the average 1880—89. R 2·12 in., and wet days 45, above the average. The R of the winter months 1890—91 was 2·70 in. below, spring ·76 in. above, summer ·99 in. above, and autumn ·31 in. above the average.

SLOUGH, LANGLEY. — Very unfavourable weather throughout excepting in June. The spring months were harsh and dry, and the summer and autumn wet.

GREAT MARLOW.—R nine inches above the average, and the greatest recorded in 14 years. In the first six months 10·09 in. fell, and in the last six, 27·77 in.

WINSLOW, ADDINGTON MANOR.—Two remarkable features of the year, were, the entire absence of R in February and the exceptional R in October.

BUCKINGHAM, ADSTOCK.—The first quarter of the year was very dry, the last quarter very wet.

WOBURN SANDS, SANDYMOUNT.—R unequally distributed, 9·72 in. falling in the first, and 21·66 in. in the last, six months.

OLNEY, FILGRAVE.—R 1·84 in. above the average of 17 years. On two days in October the fall exceeded an inch.

HENLEY-ON-THAMES, ASSENTON.—A cold spring and wet autumn (especially October,) dry February and dense fogs in December. Summer free from TSS. The springs in the chalk formation were unusually low in the summer, and rose faster than was ever known before.

ABINGDON, CULHAM.—R much below the average for the first half year, and very much above for the second half.

WATLINGTON, PYRTON MANOR.—A year of contrast. The first half with 8·20 in. of R and a total drought of 34 days from February 1st. The second half with 23·60 in. and a fall of 7·72 in. in October, 6·86 in. falling in 18 consecutive days. The great R of the latter months did good, as springs and brooks were very low.

NUNEHAM PARK.—The R and number of rainy days exceeded that of any of the preceding 5 years during which a record has been kept. February and December remarkable for wet fogs.

BANBURY, BLOXHAM GROVE.—R 2·08 in. above the average. The year opened with some frost (the ground mostly covered with S) which, with slight intermission, continued till January 20th. February was the driest month of the year. With the exception of about 3 warm days in May, and about a week of warm weather in July, the spring and summer were unusually cold and gloomy. August and October were the wettest months. The year was on the whole most unfavourable to agriculture.

DAVENTRY, FAWSLEY.—An exceptional year. The driest February since observations commenced in 1880. Heavy and destructive gales in October, November and December.

MAXEY VICARAGE.—R ·41 in. and rainy days 25, above the average of ten years. More than ·50 in. fell on 7 days, but on no day did

the fall reach 1·00 in. The longest dry period was 9 days from Dec. 17th, and the longest wet period 13 days from Nov. 8th.

COVINGTON RECTORY.—The spring was very cold with many falls of S. Much damage was done by L in July. The autumnal months were mild and wet, causing floods. R of the year exceptionally great.

ASPLEY GUISE.—R 4·39 in. or 18 per cent. in excess of the average of 20 years. With the exception of May each month, up to and including July, had less than the average, and there was a deficiency on the total from January 1st up to the end of September. February was the first rainless month since observations began in 1854, and Oct. with 6·81 in. was the wettest month during the same period, though six inches has been exceeded twice.

TEMPSFORD HALL.—S and frost till January 22 then mild, and the driest February on record. R light in the first 7 months, though the fall in May was above the average; August was wet and October the wettest month in 13 years, with the highest flood since 1881. Floods occurred also in November and December.

CAMBRIDGE, FULBOURN ASYLUM.—R considerably above the average. A dry season till June, afterwards very dull and wet and no summer weather till the middle of September. February was exceptionally fine, dry and mild.

CHATTERIS, THE PRIORY.—Unusually wet summer and harvest time.

DIVISION IV.—EASTERN COUNTIES.

WALTHAMSTOW.—R considerably more than the average. The most prominent feature was February, with no downfall of any sort. The first half year was dry and cold on the whole, the latter half phenomenally wet, over 20 inches falling, against 9 inches in the first period. January, March, and November had about the average fall; May, July, August, October, and December were much above, and April, June, and September well below, the average. Winter lingered on to the end of May; there was no summer worth mentioning, and the autumn was dull and cool, lasting nearly to Christmas. Spring was quite abolished. The autumn was very stormy and wet. Absolute droughts occurred from February 1st to March 7th (35 days), and April 17th to May 1st (14 days).

BILLERICAY, BURGHSTEAD LODGE.—Except ·01 in. on 4th and 6th of February, no R fell in the 34 days ending March 7th, while R

fell on 30 days out of the 37 ending August 31st, and on 27 out of the 35 ending December 13th.

DUDBROOK HOUSE.—The commencement of the year was frosty and snowy, and a cold wet summer followed, R falling on 34 days from July 19th to the end of August.

CHELMSFORD, HIGH STREET.—R nearly two inches below the average. The first six months unusually free from R.

BRAINTREE, FENNES.—R very near the average of 37 years, but the distribution very unequal, little more than one-third of the total falling in the first six months.

IPSWICH, BISHOP'S HILL.—R 1·50 in. less than the average. February was the driest, and October the wettest, month in the 20 years recorded.

LAVENHAM, PRESTON RECTORY.—The year was remarkable for its great humidity and for the absence of sunshine, for a very cold spring and very mild autumn.

CLARE, STANSFIELD.—R remarkably light for the first four months, February "fill-dyke" being specially false to its name; unfortunately the lack of R was more than compensated by abnormal falls in May, July, August, and October.

HAWKEDON RECTORY.—The feature of the year was the very dry February. July and August were wet and cold, a sharp frost occurring after a H storm on August 4th; September gave ten days of hot brilliant weather, and the remainder of the year was wet, with the exception of a fine frosty week ending Christmas day.

DRINKSTONE PARK.—R 2·10 in. less than the average from 1865-91.

WALSHAM-LE-WILLOWS.—A rainy summer but no floods, the R being diffused over a large number of days.

LOWESTOFT.—Number of rainy days the greatest in any year recorded.

BELTON RECTORY.—A bitterly cold and dreary winter, an unsatisfactory spring, one day of summer (September 7th), a wet but sunny autumn, and no S till after Christmas.

DISS.—A long severe winter; S till the end of March, during which month gales with TSS occurred on 3rd, 25th, and 26th. May began with a heavy gale and TS, then the first half was fine, but S and much R fell in the latter half. June was splendid. July wet in the latter half. Harvest delayed, but finished in magnificent weather in September. October was wet, with heavy gales and TSS.

November dull and foggy. December frequent gales, and warm till 21st, then sharp frost to 26th. R rather below the average.

GELDESTON.—R ·54 in. below, and rainy days 23 above, the average of 20 years. In February only ·05 in. fell. August and October were very wet.

BLOFIELD.—Severe weather to January 22nd, February excessively dry, a wintry March, and cold ungenial April. Extraordinary weather in May, six inches of S on 18th. June dry, July and August wet and unsettled. September very warm in the second week, gales in October and November, and a week's frost before Christmas.

EAST DEREHAM.—January very severe until 22nd; February unusually dry; March and April wintry; May variable, and with more S on 17th than on any other day of the year. June was dry, but very cold during the first 12 days. July and August were rainy and unsettled, and September and October fine and warm for the most part. November and December were mild and stormy. R about three inches above the average.

DERSINGHAM.—January was very cold; February almost rainless. The first four months were dry, but August and November were both very wet. November was marked by heavy gales.

DIVISION V.—SOUTH WESTERN COUNTIES.

SALISBURY, ALDERBURY.—This year had both the smallest R in one month (·01 in. in February), and the greatest (9·00 in. in October) ever recorded here.

MERE DOWN.—The wettest year since the record commenced, and comprising both the driest February and the wettest October. Gales prevalent in the autumn.

LUDGERSHALL, CONHOLT PARK.—Severe frost began on November 25th, 1890, and continued to January 22nd (55 days). February was very dry, only ·01 in. of R falling. Very cold weather occurred in May. From July to the end of the year was very wet, especially August, October, and December, in which months more than half the total R fell.

BISHOP'S CANNINGS.—The first half of the year was very dry, and springs were low. Harvest was much hindered and spoilt by R. Brooks and wells full at the end of the year.

CALNE, COMPTON BASSETT.—The last six months of the year had

by far the heaviest R on record for the period, and August had the heaviest R in any month for about 20 years.

BROAD HINTON.—R the greatest for 12 years, except 1882. In February (usually wet) no R fell, and in August and October the R was in excess of any other month for 12 years.

PORTLAND, THE MANSE.—The latter half of the year was unusually wet, balanced by the earlier part being unusually dry.

LANGTON HERRING.—R no less than 8·24 in. above the average of ten years. The drought in February, the blizzard in March, the cold in May and July, the rains in August and October, and the storms in November and December, will make this year memorable. In the first seven months the R was 12·94 in.; in the last five it was 24·65 in., the average for the two periods being practically the same.

POOLE, THE YARRELLS.—R 7·40 in. above the average of 20 years. October the wettest ever remembered.

HAMWORTHY.—The wettest year since 1879. During October, November, and December there was a series of heavy gales. A keen frost prevailed from December 17th to 25th, and salt water was frozen and skated upon. Very dry in February.

BERE REGIS, BLOXWORTH RECTORY.—The year was remarkable for the almost entire absence of TSS.

WIMBORNE MINSTER, CHALBURY.—The R for the last three months amounted to 18·37 in., and in the other nine months to 20·44 in.

KINGSBRIDGE.—R 2·10 in. more than in the previous wettest year since 1883.

IVYBRIDGE, LANGHAM HILL.—January was in all respects an average month. The "sensations" of this most sensational year began with the extraordinary drought of February (which continued to March 6th), with warm spring weather; then came the blizzard in March. June was very pleasant, July not very bad; then the floods descended, and in the remaining five months 36·90 in. of R fell. Storms were frequent and violent during the second week in November and the first fortnight of December.

PLYMPTON, HEMERDON.—The small R of the first six months stands out in strong contrast to the excessive fall of the last six months. The extraordinary falls of August (9·33 in.) and October (10·12 in.) deserve especial note. Also the disastrous storm of wind and S in March, which did much damage to trees.

PLYMPTON, FURSDON.—The wettest year on record.

BERE FERRERS.—Remarkable, first, for the blizzard on March 9th, and the enormous destruction in S. Devon and E. Cornwall; secondly, for the extraordinarily fine February; and thirdly, for the wet October (10·71 in.). Only once since 1875 has over 10 inches fallen in any month,

BABBACOMBE.—A cold, damp, stormy, variable and unprecedently wet year. The 7th cold year in succession. R 8·45 in. (22 per cent.) and wet days six, above the average. The R was the greatest, and the extreme min. temp. in shade was the lowest in the 14 years recorded. The R of February ·03 in. was the least, and that of October 10·37 in., the greatest, in any month during the same period, while the fall of August was the greatest recorded for that month. It was the only year in which the max. shade temp. occurred in May, and this was followed in three days by S. A rainless period of 14 days occurred from February 8th to 21st, and another of 13 days, from June 9th to 21st. In 34 days ending March 6th, only ·04 in. was recorded. The greatest number of consecutive wet days was 22, ending December 15th. In the last three months 20·47 in. of R fell.

KINGSKERSWELL, FLUDER.—A remarkable year in many respects. February rainless; the heaviest S fall remembered in March. August remarkably cold and wet, and in October the heaviest R known for many years. The dry February lowers the total but in spite of this, 1891 will be numbered among wet years, the nine months from April to the end particularly so.

KINGSTEIGNTON.—The blizzard in March was the most striking incident of the year, and the absence of TSS in the summer was somewhat remarkable.

CHUDLEIGH, IDEFORD.—R 8·42 in. above the average of five years. R fell on 23 days in August, October and November. The absence of any fall whatsoever in February is the first instance of a rainless month since the record commenced in 1881. The fall for October 8·98 in. has only once been exceeded.

BOVEY TRACEY, COLEHAYS.—Remarkable for R, the total far exceeding that of any other of the six years recorded.

ROUSDON.—The wettest year since observations commenced in 1884, the R being 5·94 in. more than the average of the seven years.

EXETER, LYNDHURST ROAD.—The features of the year were the almost total absence of R in February; the heavy fall in August and the still greater fall in October, when on two days more than inch fell.

AXMINSTER, GREAT TRILL.—R 11·24 in. above the average of seven years. Dry periods occurred as follows:—January 9th to 19th, 11 days; February 1st to March 6th, 34 days; June 7th to 21st, 15 days, and October 27th to November 7th, 12 days.

EXETER, BRAMPFORD SPEKE.—It has been described as "The winter of our discontent, the spring of our discomfort and the summer of our disappointment." There were some beautiful days in May, June and September, but the weather generally was rough, cold or wet.

HONITON, IVEDON.—Exceptionally rainy and stormy.

HEANTON SATCHVILLE.—August R 7·61 in. only exceeded by ·12 in. in October, 1885, and by ·27 in. in September, 1885, during the 8 years recorded.

ROSE ASH.—Very rainy and cold on the whole. February and November the two brightest months.

LYNTON, PARRACOMBE.—R 11 inches above the average. The spring was dry, 4·69 in. falling in the three months February to April; and the autumn was wet, the total for August to October being 20·78 in.

ILFRACOMBE.—R about 9 inches above the average, notwithstanding that none fell in February.

LISKEARD.—Exceptionally heavy R occurred in August and October, but for which the total for the year would have been about the average.

LANHYDROCK.—The most trying year of a long series. The spring was dry and parching, with the most protracted frost for over 60 years. The destruction caused by the S storm of March is unprecedented in Cornwall and Devonshire. Continuous R and floods occurred in the harvest month, with very little sunshine; yet in September the temp. rose higher than for 70 years.

BODMIN, FORE STREET.—R above the average. A very dry February, and very wet August and October; not much frost, but many heavy gales.

CREWKERNE, BINCOMBE HOUSE.—R 6·32 in. above the average of 20 years.

YEOVIL, WEST COKER.—Severe frost prevailed to the 20th of January, the ice reaching a thickness of 9 inches. No R fell in February, and the first half was exceptionally mild, the latter part frosty. With the exception of June, the summer was showery and cold. Heavy R and constant storms and gales occurred during the autumn, especially in October, when there were excessive floods. A hard

frost with S.E. wind prevailed from December 17th to Christmas.

SOUTH PETHERTON.—R in the first 6 months 10·68 in., and in the second 6 months 25·07 in.

TEMPLE COMBE, STOWELL RECTORY.—Remarkable for a practically rainless February, a very wet August, and the wettest October recorded.

MILVERTON.—R 7·68 in. above the average of 5 years.

MINEHEAD, BLAIR.—No R fell in February, none for 19 days in April, and none for 14 days in June. R fell on 16 consecutive days in October.

STON EASTON.—R 4·03 in. above the average of 23 years. Absolutely no R fell in February, nor sufficient dew to measure ·01 in.

HARPTREE COURT.—R 7·14 in. above the average of 10 years. The R of the first six months was only 15·60 in. None fell in February, while August, October and December were very wet. From October 5th to 22nd inclusive (18 days) 9·07 in. of R fell, an average of over ·50 in. per day.

DIVISION VI.—WEST MIDLAND COUNTIES.

CLIFTON, PEMBROKE ROAD.—The total R has been only three times exceeded in 36 years, but the number of rainy days is not above the average. The almost total absence of R in February is unprecedented. August was the wettest on record, excepting 1865. October (8·71 in.) was the wettest month in 36 years. The heavy R of the autumn replenished the springs, which in many places had been lower than within living memory.

FRAMPTON COTTERELL.—More R than in any of the preceding nine years.

LYDNEY, CLANNA.—An exceptionally wet autumn and winter. The springs at the close of the year were fairly full, for the first time since 1887.

HATHEROP RECTORY.—Notwithstanding the dryness of the early months, the total fall is about an inch above the average of 22 years.

SAUL LODGE.—The year is remarkable for the largest and smallest monthly falls in the 34 years recorded, viz., February ·01 in. and October 7·38 in.

NEWNHAM-ON-SEVERN.—R 8·38 in. above the average of 14 years.

Excessive R in the three months commencing October 1st (18·32 in.) Plenty of sunshine, but very little warmth and no heat.

GREAT BARRINGTON, BURFORD.—No R in February; very wet in August and October; much T during the summer. Tremendous gales in November and December.

GLOUCESTER, BIRDLIP HILL.—R 6·18 in. above the average. February was practically rainless, and October had the heaviest fall in one month during 9 years.

GLOUCESTER, WITCOMBE RES.—The wettest August and October recorded in 29 years, and February the driest month in that period.

GLOUCESTER, LOWER BARTON STREET.—R about 3·50 in. above the average, 10·09 in. falling in the first half, and 21·43 in. in the second. The most severe winter for many years and skating occurred on the Severn at Gloucester for the first time since 1855; a water famine also prevailed. February was practically rainless. S fell several times in March and once in May. There was much T and L from May to August, and heavy R in August and October. The Severn overflowed three times, and gales occurred in October, November and December.

ROSS, THE GRAIG.—The year was remarkable for having the driest February and the wettest October on record, for very heavy rainfalls, for excess of number of rainy days, for a dry cold spring, cool showery summer, especially August, for the wet autumn, for a succession of violent gales in the latter part of the year and for remarkable frost and persistent fog in mid December. The R of the 7 months from May 15th to December 14th has not been exceeded since 1852.

MUCH DEWCHURCH, BRYNGWYN.—A wet and rather cold year; remarkable for one of the driest Februarys and wettest Octobers on record.

LEDBURY, ORCHARDLEIGH.—Remarkable for no R in February, and for 7·06 in. in October, the highest for many years, also for fearful gales in the last four months.

LUDLOW, ASHFORD.—The main features of the year were; first the extraordinary dryness of February, R only ·04 in. with sunny days and frosty nights; secondly, the continuous R in May, August and October.

CLUN, BETTWS.—Memorable for its great and general R throughout the year, with the exception of February which was remarkably dry. Excessively heavy gales in October and December.

PONTESBURY, THE VILLA.—The first 4 months were dry. The summer was cool and showery rather than wet. September was the finest month. In October, November, and December there were almost constant storms of wind and R, with intervals of frost and fog.

BUNTINGSDALE.—Much frost in January and February, a cold late spring, a wet ungenial summer, and a wet autumn.

ALREWAS, THE COTTAGE.—February and May were remarkably dry, but it was wet at the time of hay and corn harvest.

BURTON, RANGEMOOR.—February was notable for R on only 3 days. August and October were very wet.

BURTON, SHOBNALL.—R ·93 in., and rainy days 10, above the average of 16 years; from February 9th to 28th, 20 days without R.

BURTON, DERBY ROAD.—The total R was nearly normal, being only ·68 in. below the average, but the monthly distribution was very unequal, ranging from ·11 in. in February to 4·21 in. in August. The mean shade temp. was three-quarters of a degree below the average, and here again the monthly distribution was irregular, ranging from three degrees below, to a degree and three-quarters above, the average.

CHEADLE, TEAN VICARAGE.—Another cold year, the seventh in succession. The only considerable periods of warm weather were in February and September. No summer.

EVESHAM BANK.—R 2·16 in. in excess of the average of 25 years. The fall of February (·05 in.) is smaller than that of any other month in the same period. The summer and autumn rains were injurious to agriculture.

TENBURY, ORLETON.—A cold wet year, the coldest but three in 30 years, and the wettest since 1886. The longest frost on record ended in January; February was the driest month, and the max. temp. on 28th (63°·5) was the highest recorded. May saw what was probably the coldest Whitsuntide, with a deep S on the ground. The heat from September 10th to 13th, the temp. each day rising above 80°, was a record, as was also the R of October 7·02 in.

REDDITCH, PROSPECT HILL.—Excessively wet, 6·51 in. above the average of 10 years. February was phenomenally dry.

KIDDERMINSTER, WOODFIELD.—Total R several inches above the average. A remarkably dry February.

KING'S HEATH.—The early months, February particularly, were very dry, but the latter months were excessively wet, October especially.

ALCESTER, RAGLEY HALL.—The greatest R in any year since observations began in 1882.

ALCESTER, RAGLEY GARDENS.—Remarkable for sudden changes, stormy winds, extremes of heat and cold of short duration, dull sunless days being the rule. It will long be remembered for the severe frost and S of January, for the frost, S, and sleet of May 16th to 19th; and for the rains of October, flooding all low-lying ground.

DIVISION VII.—NORTH MIDLAND COUNTIES.

BARKBY VICARAGE.—R about the average, but by small continuous R the hay harvest was much injured, and the land in the autumn was very wet.

ROTHERBY HALL.—There was S on the ground for 33 days ending January 20th, on the 21st the Wreake overflowed its banks, and again in October, November, and December, but not once in the year did an inch of R fall in one day.

UPPINGHAM.—R ·90 in. above the average of 10 years. The springs were very high at the close, but to the end of April, and again to the end of September, there was a considerable deficiency in the R.

KETTON HALL [STAMFORD].—Very changeable, with much cold, dull weather, and R 1·20 in. above the average of 10 years. January very cold, with S on the ground to the 20th; February very dry and cold; March cold, with S on the ground from 9th to 16th; April dry and cold; May 12th and 13th very hot, cold afterwards, with S on 16th, 17th, and 18th. June was dull, and no R fell for 17 consecutive days ending 22nd; July was changeable and unsettled, with many showers; August very unsettled, with much R. The best weather of the whole year was from September 6th to 15th. October very wet, but mild. November very foggy, with many showers. A great deal of fog and severe frost in December.

GRANTHAM, LITTLE PONTON RECTORY.—February very dry, a cold spring and no summer, only one hot week in September. From September 13th for 44 days R fell on 36, and from November 10th for 36 days R fell on 33. From December 6th to 26th hard frost, and the longest period of continuous fine weather since February.

SLEAFORD, BLOXHOLME.—R a little above the average; August very wet and unfavourable.

HORNCASTLE, HEMINGBY.—An unusually dry spring and a very

wet August and October. R slightly below the average of 7 years.

LOUTH, GOSPELGATE.—R 3·76 in. above the average of 27 years.

LOUTH, WESTGATE.—The wettest year since 1883.

BARTON-ON-HUMBER, SAXBY RECTORY.—The R in February was exceptionally small, and the year generally was marked by an absence of heavy falls. The last three months were extremely damp and humid, though the R was not excessive in any month; the ground, however, was so wet from the constant small quantities that farm operations were much delayed.

WHATTON MANOR.—The rainiest experienced for many years.

NOTTINGHAM, STRELLEY HALL.—The wettest year since 1882, and the largest number of wet days since 1883. R probably six inches above the average.

NOTTINGHAM, MAPPERLEY HALL.—February very dry, and June, August, and October very wet.

SOUTHWELL, GRANTS.—R about three inches above the average. In only two months, February and September, was the fall considerably below the average, while in seven it was much above, the excess being more than an inch, in four months. The mean temp. is about half a degree below the average, all the summer months, except June, being cold. September and October were the only warm months. 100 hours less sunshine than in 1890.

HODSOCK PRIORY.—The year was cold, dull, and rather wet. It commenced with a long frost in January, followed by a nearly rainless February; the spring was cold, dry, and very late; the summer was cold, dull, and rather wet; September was the best month of the year, fine, warm, and dry; the autumn was wet and stormy, and a week of very sharp frost occurred just before Christmas. The R was deficient during the earlier part of the year, and generally in excess during the latter part, the total being about two inches above the average. Sunshine was deficient throughout the summer, but was in excess in September and in the winter months.

WILLINGTON.—R considerably above, and temp. decidedly below, the average.

DERBY, ELVASTON.—January, February, March, and September were dry, almost absolute drought prevailing throughout February. April to June, August, October, and December all had falls above the average, June and October being excessively wet with double the average R. The summer was very unseasonable, being char-

acterised by much wind, R, and low temp. April and May were particularly cold and cheerless.

BELPER, CHEVIN, HAZLEWOOD.—R 7·44 in. above the average of 6 years.

STUFFYNWOOD HALL [MANSFIELD].—Cold and wet, with the largest R for 9 years. The fall on June 4th (2·10 in.) is, with one exception, the largest since the record commenced in 1876.

DIVISION VIII.—NORTH WESTERN COUNTIES.

ECCLESTON.—On four days in June 4·50 in. of R fell, or ·71 in. more than in the first four months of the year.

CHRISTLETON HALL.—February and March were very dry, but from April to the end of the year the weather was changeable and uncertain, with much less sunshine than the average, and very few hot days. Harvest was more protracted than for many years, chiefly by TSS. There were frequent gales in the latter half of the year and hurricanes on August 25th and September 1st, which did much damage.

WINCHAM HALL.—The total R did not exceed the average, but the temp. was low, and sunshine deficient.

HINDERTON LODGE.—R 12 per cent. above the average of 22 years.

FRODSHAM, FOX HILL.—Total R slightly below the average. The first four months were very dry and cold.

WILMSLOW, SOUTH SIDE. —February was remarkable for drought, April and May gave us a wet spring, and August, October and December were very wet, their R averaging nearly 5·25 in.

HADFIELD, MILLBROOK.—A very rough, cold year, with many cyclones and great and sudden variations of pressure. Great heat from September 8th to 13th, and intense frost from December 17th to 24th.

AIGBURTH, KELTON.—R 3·81 in. above the average of 10 years. For the first four months the R was remarkably light, but during the rest of the year it was above the average in every month, notably so in June, July and August.

STRETFORD.—Very cold all through January, and in the last two weeks of December. July was very cloudy, without much R. Only two spells of real summer weather, viz., two weeks in June, and ten days in September.

MANCHESTER, ALEXANDRA PARK.—The year as a whole, but especially in the autumn, was very wet and unsettled.

ORMSKIRK, AUGHTON SPRINGS.—R the greatest in any year since 1877, and exceeded only 6 times in 66 years.

BOLTON, THE FOLDS.—R ·66 in. more than the average of 60 years.

ROCHDALE, DEEPLISH HILL.—February very dry, August and December very wet.

SOUTHPORT, HESKETH PARK.—Great deficiency of R in the early part of the year, and excess in the latter part, the total being almost exactly the average of 20 years.

ENTWISTLE.—February the driest, and August the wettest, month in about a quarter of a century.

OVER DARWEN.—R 4·90 in. in excess of the average of 18 years. August and December each contributed upwards of nine inches. On five days the fall exceeded 1·00 in.

LYTHAM.—R ·43 in. above the average of 14 years.

RAWTENSTALL, GOODSHAW.—The year will be memorable for the unprecedented dryness of February, and for the amount of R which fell in the last 6 months; during the 184 days of those months 42·29 in. of R fell on 136. From July 15th to September 7th, 55 days, R fell on 49, leaving only 6 days without R in the best part of the summer. From November 8th to December 16th, 39 days, there was only one day entirely without R.

HUNCOAT RES.—In the first half-year 11·23 in. fell, and in the latter half 35·87 in. The fall of December, 9·08 in., is the greatest in that month for 20 years.

ECCLESTON, ELSWICK LODGE.—Total R about the average, but in the first half 7·80 in. fell, and in the second half 30·29 in.

ST. MICHAELS-ON-WYRE.—The R of the last 5 months was 29·03 in., the greatest recorded in that period during 17 years, but the total for the year is not much above the average. February was the driest, and August the wettest, month during the same time.

DOWNHAM HALL.—About an average R, but three-fourths fell in the latter half of the year.

LANCASTER.—The R of the first seven months (11·56 in.) was exceptionally small, and was nearly equalled by the fall of August (11·47 in.), the records for the 24th and 25th, 2·30 in. and 2·38 in. respectively, being enormous.

LANCASTER, ESCOWBECK.—The R in the first 7 months of the year was the smallest recorded in 32 years, followed by August with 11·63 in., the largest fall in any month during the same period.

LANCASTER, HEST BANK.—The year was remarkable for the dryness of the first seven months and the heavy R of the last five.

BARROW-IN-FURNESS.—R ·69 in. above the average of 20 years. The fall of February was only one-eighth of the average, while the totals for August and December were nearly double the average.

ARKHOLM, STORRS HALL.—R very small until the end of June, and a heavy fall for the remaining months. August (R 12·35 in.) was the first month with more than nine inches of R since 1869. S and severe frost at Whitsuntide.

CARTMEL, HOLKER.—The first 6 months were remarkably dry, the R being 9·95 in. August was very wet with low temp. ; part of September was fine and hot, and the remainder of the year cold and showery.

GRANGE, KENT'S BANK HOUSE.—Dry up to July 18th, R having fallen on only 70 days, but after that unseasonably wet, R falling on 96 days. S fell on two days in May.

POAKA BECK.—R practically the same as the average of 20 years. The fall in February was only one-sixth of the average, while August and December had each nearly double the average.

CARTMEL, PIT FARM.—The first 7 months were much drier than usual, while the last 5 months were wet, making a total rather above the average. January was very cold, February very mild and fine, May very wet, August extremely wet, and heavy floods occurred in that month and in September.

BROUGHTON HALL.—R about 2·00 in. above the average of 25 years, the fall in the first 6 months being only 11·61 in., while 38·65 in. fell in the last 6. February was singularly dry. August and December remarkably wet.

BROUGHTON-IN-FURNESS.—R three inches above the average. 18·43 in. falling in the first 7, and 42·93 in. in the last 5, months.

WOODLAND RECTORY.—Up to the end of June the fall was the lowest on record, 13·79 in., while in the last six months 42·79 in. fell, making the total for the year quite an average.

SEATHWAITE VICARAGE.—The first six months were marked by a deficiency of R, amounting to partial drought, the latter six by great excess, the total for the year being much above the average.

SKELWITH FOLD.—The year was marked by an exaggeration of the usual spring drought (the R of the first half being less than that in the corresponding period of the Jubilee year) followed by five months of almost continuous wet. There was a very destructive frost at Whitsuntide.

DIVISION. IX—YORKSHIRE.

ROTHERHAM, THRYBERG.—R above the average, owing to the heavy R in the latter half of the year. Only ·03 in. was recorded in February, and was really mist, not R.

DONCASTER, FIRSBY.—R slightly below the average. Only ·03 in in February.

WATH-UPON-DEARNE, CHAPEL STREET.—R 1·77 in. below the average of 25 years. The R in May, August, November and December was above the average, all the other months were dry, especially February, when only ·05 in. fell. The summer was cool and cloudy, the only summer weather being early in June and for about 10 days in September.

STAINBOROUGH, WENTWORTH CASTLE.—R 1·46 in. above the average of ten years.

MELTHAM, HAREWOOD LODGE.—Decidedly a wet year, the last five months exceptionally so, averaging more than 6·00 in. per month. December gave the highest total but one, since observations commenced in 1880, and February absolutely the lowest in the same period. The year was decidedly cool, more particularly in the summer, the only warm period being five days in September, commencing on the 9th. TSS were rather frequent, especially in May. October and December were very stormy.

DONCASTER, HATFIELD.—The winter was cold and frosty, but there was not much S. The spring was very dry and cold, and vegetation backward. The summer was cool and wet, with little sun. The autumn was very wet and mild, except the third week in December, when it was very frosty, with dense fog.

HUDDERSFIELD, GOLCAR.—R the greatest in any year since observations began about ten years ago.

WAKEFIELD, ALVERTHORPE HALL.—Remarkable for severe and sudden changes. The extraordinary frosts and strong wind, and two S storms in May, cut off all fruit blossom, which was abundant. The heaviest R 4·40 in. was in August, with six TSS. October, November, and December, were very wet and foggy.

HALIFAX, THORPE.—October, November, and December, were very wet, 21·72 in. of R falling, the last named being the wettest month since 1870, and yielding 7·50 in. of R in the first 13 days.

HEBDEN BRIDGE.—During the last 5 months of the year, no less than 33·64 in. of R fell on 110 days, leaving only 43 fine.

KNARESBOROUGH, CONYNGHAM HALL.—The first six months were remarkable for the small quantity of R. May was very cold, with S and frost from 17th to 19th.

RIPLEY CASTLE.—A remarkable year. June was the only seasonable month. On May 17th a heavy S storm occurred, followed by sharp frost. The R of the first six months was light, but during the last six months, excessive.

SETTLE, THE TERRACE.—R the greatest for six years. Less than the average fell in the first 6 months, but during the latter six, there were only 53 days without R, and on 8 days, more than an inch fell.

OUGHTERSHAW HALL.—R twelve to fifteen inches above the average, much R falling in the last six months; yet, the weather was not unpleasant.

DERRINGHAM.—Cold, ungenial and unfruitful. A severe winter and protracted spring, which included the driest February for 40 years, was followed by a cold, variable and cloudy summer, with frequent light R and diminished sunshine, and the remainder of the year was wet.

BEVERLEY.—The first half cold and dry, the second half cold and wet—one long prolonged winter with the chill taken off. R of July 30th 1·98 in., half an inch more than the greatest fall previously. Range of temp. from May 13th to 16th, 61°.

DRIFFIELD, YORK ROAD.—Remarkably dry in the first half, R 7·73 in.; the remainder very wet, with the exception of September, the 5 months averaging 3·47 in.

WETWANG.—R within a few hundredths of the average of 10 years. In the 33 days ending March 5th only ·09 in. of R. fell.

THIXENDALE.—The year was remarkable for the extreme dryness of February (R ·16 in.).

BALDERSBY.—The R for the first six months was 3·38 in. (or 33%) below the average, whilst for the second six months it was 4·03 in. (or 22 %) above the average, of eight years.

THIRSK, SOWERBY.—R 1·30 in. below the average of 12 years.

AYSGARTH VICARAGE.—The R in February ·08 in., was the least in any month recorded, though in June, 1887, only ·11 in. fell. June was very dry till 24th; August very wet. In September the temp. reached 80°, never remembered before in this district. October, November, and December, were wet, the R falling with strong S.W. winds.

HARDROW VICARAGE.—R much below the average for the first six months, but the latter half of the year was exceedingly rainy, raising the fall nearly to the average of 16 years.

INGLEBY MANOR.—The first six months were cold and dry. February was unusually dry and fine. The last six months were very wet and stormy. A cold summer, except the latter half of June, which was fine and warm. The S and sharp frost at Whitsuntide destroyed the fruit crop.

DIVISION X.—NORTHERN COUNTIES.

SEAHAM VICARAGE.—An unfavourable year; temp. low, and more than one-third of the total R, in July and August.

BELTINGHAM.—R 1·77 in. above the average of ten years.

NEWCASTLE, TOWN MOOR.—In July and August 9·55 in. of R fell, being more than the total of the previous six months, 8·88 in.

ALWINTON, BIDDLESTON.—The first half of the year was dry, with a fair amount of sunshine; the last half excessively wet and cold, with deficient sunshine and much T.

PAWSTON [COLDSTREAM].—February was the driest month remembered and very mild; March quite the reverse. Spring was cold, and dry after the beginning of April. July, August and September were rainy,with floods in the latter month,the little river, Bowmont Water, being larger than it had been for 19 years, at least. June was abnormally dry.

MILLOM, LEYFIELD.—The first half was very dry, 10·51 in. of R on 80 days; the second half very wet, 34·82 in. on 120 days. Drought prevailed for 14 days from February 14th to 27th.

ULPHA VICARAGE.—R very heavy during the last five months, 60·02 in. falling on 129 days, out of a total for the year of 78·65 in. There were two periods of 14 days without R, February 14th to 27th and October 24th to November 6th.

RAVENGLASS, HOLM ROOK.—The drought of the first six months, and excessive R of the last six months, make the year's R remarkable.

BRAYSTONES.—The total R, notwithstanding the remarkable drought up to the end of June, was 3·28 in. more than the average of 27 years.

WHITEHAVEN.—R 6·21 in. above the average of 15 years. Very dry during the first seven, and very wet during the following five, months, the falls being respectively 11·27 in. and 36·06 in.

KESWICK, DERWENT ISLAND.—Nearly 73 per cent. of the total R, fell in the five months, August to December.

KESWICK, THE BEECHES.—The first six months were fair and dry, February and June being especially fine. The last six months were almost continuously stormy and wet, the only fine periods being from September 7th to 14th, October 22nd to November 7th and December 16th to 25th.

KESWICK, SHU-LE-CROW.—Only 16·44 in. of R was recorded in the first six months, while the fall of the three months, August to October (34·58 in.) was more than twice as much.

COCKERMOUTH, WHINFELL HALL.—Four-fifths of the R fell in the last six months. In the first half year the total was 11·99 in., while in August alone 11·54 in. fell.

BROUGHTON GRANGE.—A very dry, spring and early summer, causing the greatest drought for many years, and almost complete failure of the hay crop. Excessive R in the autumn, more than counterbalancing the dry spring, the fall of the last five months being more than three times that of the first seven.

CARLISLE, WREAY VICARAGE.—R 3·48 in. in excess of the average of 10 years. The first half year was very dry, the fall being little more than a quarter of that in the second half.

KENDAL, NATLAND PARK.—R excessive, but number of rainy days less than usual.

KENDAL, HAWESMEAD.—Remarkably dry in the first half.

KENDAL, ELLERGREEN.—The first half was very dry and crops suffered; the latter half was extremely wet.

AMBLESIDE, NOOK COTTAGE.—The R of the first seven months of the year was considerably below the average (25·83 in.), but the last five months were extremely wet (58·78 in.), the total for the year being about 9·00 in. above the average of 16 years.

APPLEBY.—R 5·54 in. below the average of 25 years. In the first half 8·16 in. of R fell, and in the second half 31·68 in. February was the driest month in the 25 years, and October one of the wettest.

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

NEWPORT.—No R in February. August and October remarkably wet, and a heavy fall in December also.

LLANFRECHFA GRANGE.—The early part dry, the latter very wet, the total fall being the greatest since 1882.

TREDUNNOCK.—R about 9·00 in. above the average, and 21 inches

more than the fall in 1890, but only four more wet days. Falls exceeding an inch occurred on 11 days.

LLANVIHANGEL COURT.—The first four months were cold and calm, (the R being less than 8·00 in.,) and the weather continued cold and unseasonable to the end of June; July was fine, though cold towards the end, and up to this time the R was deficient. August was wet and sunless, and September bad for harvest, slight R falling on many days; October was phenomenally wet, and the totals for November and December were large.

FONMON CASTLE.—R largely in excess of the average and remarkable for its unequal distribution, 14·04 in. falling in the first seven months and 28·18 in. in the last five, an unprecedented amount. February with ·10 in. was the driest, and August with 9·13 in. was the wettest, month recorded in seven years.

NEATH, FAIRY LAND.—The wettest year since observations commenced in 1884; February (R ·13 in.) was the driest month in the same time, and both August (10·05 in.) and October (12·06 in.) exceeded any month in the seven years.

PENLLERGARE.—February was remarkably dry, but August, October, and December all had excessive falls, greater than in any month previously recorded.

CANTREFF RECTORY.—Dry in springtime, but remarkably wet all the summer, autumn, and winter, October having the greatest R (13·93 in.) of any month in 15 years. Very little sunshine; storms more numerous than usual.

DISSERTH, GLANHOWEY.—February extraordinarily dry, R only ·10 in.

NEW RADNOR, DOWNTON.—R 12½ per cent. above the average, and remarkable for its unequal distribution, one-third having fallen in the first 6 months and two-thirds in the last 6 months. February was remarkable for its excessive dryness, August, October, and December for excessive wet. The heaviest fall of the year was 3·11 in., in the storm of October 13th to 15th.

NEWTOWN, DOLFOR.—The wettest year since 1886, and the wettest October since 1870.

POWYS CASTLE.—The first half very dry; a cold and sunless summer, and a very wet autumn.

HAWARDEN.—The early part of the year dry, February particularly. Continuous R in August, but the total less than in June, when two heavy falls occurred.

ROSSET, TREVALYN HALL.—R 2·60 in. above the average of 23 years, and the greatest since 1886. February was the driest month ever recorded, while most of the summer and autumn months were remarkably wet.

COLWYN BAY, BRYN EURYN.—February the driest, and December the wettest, month in 8 years.

CARNARVON, NORTH ROAD.—R the greatest for 12 years.

LLWYDIARTH ESGOB.—February was the driest month on record, and the 5 months ending May had less R than any corresponding period observed. The remaining 7 months had much more R than the average.

DOUGLAS, VICTORIA ROAD.—January and February were extremely dry, with much bright sunshine, bitter wind and entire immunity from the severe cold experienced in England. March and April, however, were very cold, with bitter N. winds, but dry and bright. May was especially cold, and the winter really extended until June 5th, followed by more genial weather to the 24th, the remainder of the month was wet, with severe TSS. July was dry, with cold strong N.W. winds throughout. Early in August the dry spell broke up, and the remainder of the year (except 8 days of magnificent weather in September), was one unbroken record of S.W. winds and gales of extraordinary violence, and continuous rains quite unprecedented, as far as these observations go. R almost 6·00 in. above the average, 1880-89; 11·95 in. fell in the first seven months, not much more than half the average, and 35·61 in. in the last five months, the average being about 20 in. There was no "summer" worthy the name.

JERSEY, HASTINGS TERRACE.—In February R fell on only one day, and April also was very dry; August was very wet, and October had a phenomenal R; December was very showery.

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

GALLOWAY HOUSE.—The year was remarkable for the great drought during spring and summer, and for excessive R and storms from August 1st to the end.

AUCHENCAIRN, TORR HOUSE.—R 1·02 in. less than the average of 21 years. Nearly three-fourths of the total fell during the last five months, and the fall of that period has only once been exceeded.

COLVEND MANSE.—The R of the last five months was the greatest, and most continuous, remembered in any similar period.

CARGEN.—R 5·09 in. above the average of 32 years, the fall being very unequally distributed, for while the first seven months had a deficiency of 8·65 in., the last five had an excess of 13·74 in. The number of rainy days was also above the average.

DUMFRIES, IVY BANK.—The first seven months were remarkably dry, the fall being only 12·36 in., while that of the last five (30·56 in.) was greatly above the average, the total for the year being somewhat in excess.

MAXWELTON HOUSE.—A very dry spring, especially in February, and a very wet autumn. More R fell in the last four months than in the first eight, and the totals for the first and second halves of the year were 15·54 in. and 35·76 in. respectively.

EWES, BURNFOOT.—R from January to June 16·41 in. and from July to December 46·04 in.

DRUMLANRIG.—Unusually cold and barren; although the first half of the year was dry, there was not much sunshine.

MOFFAT, CRAIGIELANDS.—Great drought in June and July, the springs failing. Very wet in August and the last three months.

MELROSE ASYLUM.—R only twice exceeded in ten years, and 3·33 in. above the average.

MELROSE, ABBEY GATE.—R 2·08 in. below the average; the early part of the year was very cold and dry, while the summer was very wet and unfavourable.

DIVISION XIII.—SOUTH EASTERN COUNTIES.

MARCHMONT HOUSE.—August and September were extremely wet, 13·00 in. of R falling in the two months. Destructive floods occurred injuring roads and bridges, and carrying away sheep.

DUNS, CLOUDS.—R 9·26 in. above the average. March, August, September, and December, each had more than twice the average, while February was remarkably dry.

EDINBURGH, BLACKET PLACE.—R was very unequally distributed throughout the year, 6·72 in. falling in the first, and 22·49 in. in the second, half. The fall in the six months ending June was the least, with the exception of 1855, in 70 years, while that of the six months ending December, was the greatest with two exceptions, in the same period.

BO'NESS GRANGE.—January, February, and the first half of March were very dry. R began on March 16th, and 2·20 in. fell in 48 hours, causing considerable floods. April, May, and June, were very dry, and July comparatively so. There was a wet harvest-time, and November and December were wet and stormy, with much dull weather.

DIVISION XIV.—SOUTH WESTERN COUNTIES.

CAMBUS WALLACE. Very little R in the first half of the year (8·56 in.), but a great deal in the second half (25·84 in.). February was a lovely month, with summer heat, but an extremely cold March followed.

HAMILTON, ARDENCLUTHA.—Only 10·20 in. of R fell in the first half of the year. Hamilton was put on a short supply of water, and some of the neighbouring villages were without for some weeks. The scarcity did not cease till the middle of August.

DOCHROYLE.—R 1·60 in. less than the average of 16 years.

COLMONELL.—Total R ·94 in. less than the average 1876-90. In the first seven months 13·80 in. fell, and in the last five months 32·43 in.

CULZEAN GARDENS.—A very cold sunless year, remarkable for the dryness of the spring months.

PAISLEY, CROOKSTON.—In the first seven months the total R was only 10·10 in., which is the least quantity in that period since observations commenced in 1869. The fall of the last five months was 24·70 in.

DIVISION XV.—WEST MIDLAND COUNTIES.

CRAIGEND CASTLE.—R above the average, but less than that of 1890; the spring was dry, but the autumn very wet.

BUCHLYVIE.—The R was very unequally distributed, only 14·73 in. falling in the first six months, while in the last six 33·62 in. fell. February was very mild and bright, and from March to June the weather was unusually dry but cold. In August, September, October, and December the R was unusually large, and in November about the average. There was no exceptional fall, and a marked absence of TSS.

BALLACHULISH.—The first half of the year was dry and ungenial; the second half wet and variable.

ISLAY, ARDBEG.—The smallest R on record, excepting 1887 and 1889, when the falls were nearly the same.

DIVISION XVI.—EAST MIDLAND COUNTIES.

KINROSS, TURFHILLS.—Cold and dry in the spring and summer, with failing springs, but far too much R and muggy weather in the last 5 months.

LEDEN URQUHART.—R of the first 6 months of the year very light. An unusual number of heavy falls of R. Very little S.

MOUNTQUHANIE HOUSE.—Very dry till July, no R falling in February, an unprecedented circumstance.

TULLIALLAN.—Much frost in January and February, the latter month being dry and sunny; March was severe throughout, and frosts occurred almost every night in April; May was cool, but June had high temp. The weather was broken in July, August, and September, but there was one hot week in the latter month; October and November were rainy, with frequent fogs, and December had a great R and some severe frost.

CALLANDER, LENY.—R unusually small in the 2nd, 4th, 5th, 6th, and 7th months. Temp. remarkably high in February; March ferociously severe, with bitterly cold winds. Much foggy weather in winter.

COUPAR ANGUS STATION.—R 1·32 in. above, and rainy days nine below, the average of 10 years. The longest rainless period was 17 days in February and March, and 11 consecutive rainy days occurred in August. July, August, and November were very wet.

DIVISION XVII.—NORTH EASTERN COUNTIES.

FETTERCAIRN.—The first six months were dry, only 6·03 in. of R falling, while the latter six were very wet, with 24·56 in.

CULLEN HOUSE.—R about nine inches above the average. The first two months were fine on the whole; March came in with S and gales, and it continued wet through April; June was remarkably fine and dry. Extremely wet weather set in about July 15th and continued, with the exception of one fine week in September which was quite tropical, to the end of that month. October was fairly dry, and the last two months were wet and frosty.

WESTER ELCHIES SCHOOL.—The R was very unequally dis-

tributed in the different months. The excess in July and August was abnormal, the total for the two months approaching half the total fall for the whole year.

DIVISION XVIII.—NORTH WESTERN COUNTIES.

MOIDART, ROSHVEN.—Gooseberries, &c., blossomed in the mild February, to be destroyed later. The extraordinary wet period of September and the first three weeks of October, was followed by a splendid "Indian summer."

DRUMNADROCHIT.—R 3·71 in. more than the average of five years, but number of rainy days 12 fewer than the average. The fall of the first six months was rather less than the average, the deficiency being more than made up in July, August, September and December.

DIVISION XIX.—NORTHERN COUNTIES.

DUNROBIN CASTLE.—July and August were wet, and harvest was late, but was secured in excellent condition in September and October which were fine.

SCOURIE.—The greater part of February was open and mild, which caused vegetation to shoot, but frost and snow followed in March and destroyed the early growth. The spring was favourable for farming, but the summer and autumn were very wet, the former abnormally so. The winter was open with no S and very little frost.

IRELAND.

DIVISION XX.—MUNSTER.

DUNMANWAY, COOLKELURE.—The first six months were unusually dry, especially February, the second half year was remarkable for storms and gales, sometimes accompanied by R.

CORK, CLARENCE PLACE.—R 3·24 in. less than the average. There was no period of either absolute or partial drought, but an engineer's drought of 4 months terminated on April 30th. February was remarkably dry, and October as remarkably wet, the fall (6·80 in.) being the greatest in October since 1870.

MALLOW, OLD DROMORE.—February was unusually dry ; January, March, April, and May, were rather cold.

DARRYNANE ABBEY.—The first half year dry and cold, with very little vegetation ; the second half wet and stormy, but mild.

WATERFORD, BROOK LODGE.—R 2·26 in. above the average of 32 years. February with ·33 in. was the driest, and August with 7·10 in. was the wettest, in the same period. There were three falls exceeding an inch in 24 hours, occurring in the last 3 months.

DERRY CASTLE.—The R barely exceeded the average of ten years, but the rainy days were 19 in excess. The fall of the first seven months was unprecedentedly small, but during the last five, it was as unprecedentedly large; the falls for August (10 36 in.) and December (10·20 in.) being more than twice the average and the heaviest registered in any month during 47 years. The weather was very harsh up to the end of May ; June and July were fine summer months, but from August to the end of the year was extremely wet and disastrous for farming. More than an inch of R in 24 hours, fell on six occasions, three in August and three in December.

NENAGH, CLASHNEVIN.—R small in the early months, and a very late spring—a want of sunshine in the summer, and too much R in he autumn.

NENAGH, CASTLE LOUGH.—January was cold; February dry, warm, and sunny ; March and April cold ; May and June changeable; July damp, R on 18 days, but the quantities not great. The total R of the first 7 months was 13·33 in., while the remaining five, had almost double, 26·08 in. December beat the record with a fall of 8·29 in., 6·46 in. falling in the first 15 days.

LIMERICK, ROXBOROUGH.—The R was distributed in an eccentric manner. February was extraordinarily dry ; March was calm, bright, and warm ; the summer consisted of 10 warm days in June and a fortnight between the 6th and 21st of September. July was a cold cheerless month, with moderate R ; 26 days of August were wet and cold.

O'BRIENSBRIDGE, ROSS.—An unusually dry spring, but from August to the end, disastrous floods and frequent TSS.

MILTOWN MALBAY.—Spring and summer remarkably dry and cold, and in August most of the springs and rivulets were dry. From August 1st to the end of the year, the R was far above the average. In August and December the totals were exceptionally great.

DIVISION XXI.—LEINSTER.

LONGRAIGUE.—R very unequally distributed, only 13·81 in. falling in the first seven months, while 29·63 in. fell in the last five.

WEXFORD, FELT HOUSE.—Up to August the year was unusually dry, with a late spring. From August onwards, there was a succession of storms of wind and R. Much corn and hay was spoiled.

BRANDONDALE.—February the driest remembered; August unusually wet, but the harvest was saved during some good weather in September.

LAVISTOWN.—Dry in the spring and very wet at harvest time, but the crops were saved in good condition in September.

KILKENNY, INCH HOUSE.—The spring and summer were cold and wet, and the autumn was most unpropitious, except for a fort night or so of very fair weather in September. The remaining months were wet, wild, and stormy, cold raw weather prevailing.

ABBEY LEIX, BLANDSFORT.—R ·05 in. below the average of 17 years; rainy days 8 above the average.

STRAFFAN HOUSE.—R for the first half of the year very small, February being particularly dry, while August was excessively wet, the fall for the month being greater than that from January to May inclusive. The summer was damp and sunless.

DALKEY, BELLE VUE PARK.—The year was remarkable for the dryness of the first 7 months.

DUBLIN, FITZWILLIAM SQUARE.—R ·12 in. above, and rainy days 10 below, the average of 25 years.

DUBLIN, PHŒNIX PARK.—R ·05 in. below the average of 10 years. February was the driest in the record dating back to 1837.

ATHLONE, TWYFORD.—The early months were very dry, but the last five months, exceptionally wet.

CURRYGRANE HOUSE.—R nearly an inch below the average of 13 years. The water supplies were very low in the early part.

DIVISION XXII.—CONNAUGHT.

BALLINASLOE.—The first portion of the year was very dry, the R of February being the smallest in any month during 20 years. The latter months made up well for the scarcity at the beginning.

KYLEMORE CASTLE.—February, March and the beginning of April were very cold and dry; in May, June and the beginning of

July beautiful summer weather prevailed, but from the end of July there was little sunshine, and R and mist almost daily.

TUAM, GARDENFIELD.—R ·23 in. less than the average of 10 years. The fall of the first seven months was 12·03 in. and of the last five months 30·49 in., the former being the driest, and the latter the wettest, corresponding period since observations commenced in 1866.

LAWDERDALE.—As a whole comparatively dry, and but for the very wet August the year would have been as dry as 1887, the first seven months being even drier than in that year.

DIVISION XXIII.—ULSTER.

SYDENHAM, ALMA HOUSE.—R 1·93 in. above the average of 24 years. February was extraordinarily dry, the fall being about one-twentieth of the average, while August had an excess of 74 per cent.

BELFAST, NEW BARNSLEY.—Total R 3·51 in. below the average. The season throughout was cold and wet, and absence of heat and sunshine left the ground at all times moist. The first fortnight in October was exceptionally bright.

BALLYMENA.—R less than the average; no heavy falls. February the driest month on record.

STEWARTSTOWN.—R about the average.

DUNGANNON, ROCKDALE.—R 2·48 in. below the average of 17 years. The first seven months were very dry.

STEWARTSTOWN, ARDTREA.—R exactly the average.

RAPHOE, CONVOY HOUSE.—A year of large R and low temp. throughout, with a wretched summer and great absence of sunshine. August excessively wet, R 7·50 in. on 28 days.

CARRABLAGH.—The winter seasons were both mild, February was extraordinarily dry, March the worst month by far. S fell in the middle of May and severe weather continued to the close. Drought and E. winds prevailed in June, and July was cold with N. winds.

HEAVY RAINS IN SHORT PERIODS IN 1891.

WE are glad to see in the following table evidence that many of our observers have resolved to be on the look out for exceptional rains, to time them, and to measure immediately afterwards. Hence chiefly, the large number of records of falls of short duration, for although those from the various instruments at Camden Square have been incorporated in the following general table, it will be seen that after all they form but a fraction of the whole, and, as regards intensity, are far surpassed by those from some of the other observers.

For instance, the fall of 0·35 in. in three minutes at Crossness, on July 6th, is among the highest intensities yet recorded; in fact, we are not sure that there is any higher intensity for three minutes on record except in the Camden Square storm of June 23rd, 1878, when 0·40 in. fell between 1.58 and 2.1 p.m.

The same seems to be true of the 0·51 in. in five minutes at Thurcaston, which seems only to have been exceeded in the 1878 storm, and then only by 0·05—*i.e.*, 0·56 in. against 0·51 in.

We do not notice any other entries which seem to need special comment. The general impressions which the table conveys to us being (1) that there were few rains of very high intensity; and (2) that observers are being more vigilant in obtaining details of such rains than they were formerly.

Still, there is room for great improvement, and it would be easy to compile a list of stations at which records well worthy of entry in the following table could have been obtained, had the observer been at home, and taken the slight trouble requisite.

Heavy Falls in Short Periods in 1891.

Date.	Div.	Station.	Amount.	Duration.	Rate per hour.
			in.	hr. min.	in.
July 29 ...	I.	Camden Square	·09	... 1	5·40
,, 8 ...	,,	,, ,, ...	·08	... 1	4·80
Oct. 15 ...	,,	,, ,, ...	·06	... 1	3·60
Aug. 10 ...	III.	Berkhamstead, Rosebank.....	·05	... 1	3·00
July 8 ...	I.	Camden Square	·09	... 1½	3·60
,, 29	,,	,, ,, ...	·14	... 2	4·20
,, 8 ...	,,	,, ,, ...	·11	... 2	3·30
,, ,, ...	,,	,, ,, ...	·13	... 2½	3·12

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
July 6 ...	II.	Erith, Crossness	·35	...	3	7·00
,, 29 ...	I.	Camden Square	·18	...	3	3·60
Oct. 22 ...	III.	Berkhamstead, Rosebank.....	·12	...	3	2·40
Aug. 10 ...	II.	Croydon, Limes Road	·10	...	3	2·00
July 29 ...	I.	Camden Square	·23	...	4	3·45
,, 8 ...	VII.	Thurcaston	·51	..	5	6·12
,, 29 ...	I.	Camden Square	·25	...	5	3·00
,, 6 ...	VII.	Skellingthorpe, Moorlands ...	·22	...	5	2·64
June 15 ...	VI.	Tewkesbury, Beckford	·19	...	5	2·28
Aug. 1 ...	II.	Weybridge, Field Place	·38	...	6	3·80
July 29 ...	I.	Camden Square	·29	...	6	2·90
Aug. 21 ...	XIII.	Edinburgh, Blacket Place.....	·29	...	6	2·90
July 8 ...	I.	Camden Square	·23	..	6	2·30
,, 27 ...	,,	Mount View Road	·19	...	7	1·63
,, 3 ...	XIII.	Edinburgh, Blacket Place ...	·41	...	9	2·73
June 24 ...	III.	Sibford Ferris	·45	...	10	2·70
July 6 ...	X.	Southdene Tower	·45	...	10	2·70
Aug. 5 ..	II.	Leatherhead, Oxshott	·34	...	11	1·85
July 3 ...	VI.	Worcester, Fort Royal	·50	...	15	2·00
April 5 ...	,,	Hoar Cross	·44	...	15	1·76
July 23 ...	IV.	Norwich, Essex Street	·37	...	15	1·48
June 25 ...	IX.	Hebden Bridge	·35	...	15	1·40
Aug. 2 ...	I.	Mount View Road	·47	...	16	1·76
,, 21 ...	XVI.	Monifieth, Seaview.....	·47	...	17	1·66
,, 4 ...	IV.	Hillington Rectory.....	·83	...	20	2·49
July 19 ...	I.	Kensington, Addison Gardens	·50	...	20	1·50
June 15 ...	VII.	West Retford House	·83	...	25	1·99
,, 25 ...	III.	Stotfold, Baldock	·46	..	28	·99
Aug. 3 ...	IV.	Rendlesham Hall	·90	...	30?	1·80?
July 21 ...	XVI.	Leden Urquhart	·70	..	30	1·40
Aug. 5 ...	II.	Leatherhead, Oxshott	·70	...	35	1·20
June 25 ...	VII.	Willington	1·20	1	0	1·20
,, 26 ...	X.	Whorlton	·90	1	0	·90
,, 25 ...	VII.	Derby, Findern	·80	1	0?	·80?
,, 25 ...	VI.	Worcester, Fort Royal	·83	1	5	·77
,, 3 ...	VII.	Derby, Findern	1·37	1	10	1·17
July 8 ...	II.	Keston Tower	·70	1	15	·56
June 25 ...	VII.	Loughborough...	2·00?	1	30	1·33?
July 1 ...	,,	Nottingham, Beeston Fields...	1·10	1	30	·73
,, 26 ...	II.	Lewes, Iford	2·53	1	50	1·38
,, ,, ...	,,	,, Bedford Lodge	1·69	2	0?	·85?
June 25 ...	VI.	Burton, Derby Road	1·50	2	0	·75
,, ,, ...	VII.	Elvaston	1·50	2	0	·75
July 1 ...	VIII.	Frodsham, Dunsdale	1·50	2	0	·75
,, 27 ...	II.	Worthing, Heene	1·20	2	0	·60
Aug. 20 ...	V.	Penzance, St. Clare	1·18	2	0	·59
July 27 ...	II.	Canterbury, Harbledown	1·60	2	30	·64
June 24 ...	VI.	Wyastone Leys	1·38	2	30	·55
July 3 ...	II.	Alresford House	1·43	3	0?	·48?
Oct. 6 ...	VI.	Gloucester, Quedgeley	1·32	3	0	·44

HEAVY FALLS IN 24 HOURS IN 1891.

INTRODUCTORY.

IT is very satisfactory to be able to state that the data collected under this head show that the proportion of observers not conforming to the rules as to entering the rainfall to the previous day is diminishing. This is good in every way as tending to uniformity, good as rendering monthly totals more comparable, but of still greater benefit as regards this section, since it enables heavy falls to be traced with accuracy and certainty.

It has long been our custom to select for publication *in extenso* the heaviest falls recorded as having fallen in any rainfall day, *i.e.*, 9 a.m. to 9 a.m., during the year—and for some time we have adopted as the limits, falls which exceeded either 2½ inches, or 6 per cent., of the total fall in the year. It may be well to explain why any limits have been fixed. The reason is that if all heavy falls were entered they would fill a volume; even if we printed only those which are the greatest at each station for the year, we should require 36 consecutive pages of figures. As this would not be expedient, we have always selected the most important, and that at once raises the question :—What constitutes importance? This we have tried to recognize in two forms, (*a*) absolute amount of rain deposited in any 24 hours, and (*b*) proportion of the yearly total deposited in any 24 hours. Some persons may think that we omit to notice all falls of less than 2½ inches, and are rejecting many readings of importance—but the fact is that the little word *or* as used above, 2½ inches *or* 6 per cent., safeguards entries at very dry stations down even to half that amount. Let us take as an example the fall on June 4th, 1891, full details are given of the fall at 34 stations, although at only three did the totals exceed 2½ inches; but the fall was a heavy one for the dry district in which it occurred, therefore the percentage was high and exceeded 6 per cent., and therefore the records are entitled to appear. In fact, looking at the first entry for 1891 and similar ones for previous years we are not sure that the limits had not better be 3·00 inches or 6 per cent.

However, the change would eliminate very few entries, and therefore it is undesirable to make it at present.

For the convenience of those who may not have read this portion of previous volumes of this series it may be well to state that it is based upon the records of the heaviest fall on any rainfall day during 1891 at about 2,000 stations. The values are copied out, sorted according to date, and the percentage which the said fall is of the total for the year is computed. Then these entries are sorted, all those in which the amount exceeded $2\frac{1}{2}$ inches, or in which it was 6 per cent. (or more) of the total fall during the year, are recopied, and they form the entries in the next portion of this article headed "Chronological" because in it the entries are classified according to date.

Then the whole of the entries are gone through, the sixteen largest amounts, and the sixteen largest percentages, are extracted for the third portion of this article headed "Abstract" and finally all the records are added up to obtain the mean values for the year as given in table V. on page [130].

CHRONICLE.

JANUARY 25TH.

XV.	Loch Eil (Conaglen)	2·57 in. or	2·5 per cent.

FEBRUARY 10TH.

XVIII.	Glencarron Lodge	3·73 in. or	4·1 per cent.

MARCH 16TH.

XII.	Melrose (Abbey Gate)	2·18 in. or	6·3 per cent.
XIII.	Leith.....	1·61 ,,	7·1 ,,
,,	Whittinghame Gardens	2·62 ,,	9·0 ,,
XVI.	Dunfermline (Keavil)	2·01 ,,	7·7 ,,
,,	Kilconquhar (Balcarres)	2·62 ,,	7·8 ,,
,,	Cupar (Fife and Kinross Asylum)	1·70 ,,	6·0 ,,

This was the product of a very heavy snowstorm which visited the S.E. of Scotland.

APRIL 1ST.

XXII.	Ravensdale (Anaverna)...	2·47 in. or	6·0 per cent.
,,	,, School.....	2·81 ,,	7·0 ,,
XXIII.	Newcastle (Fairleigh)	2·85 ,,	5·1 ,,

APRIL 30TH.

XI.	Rhondda (Castell-nos Res.).....	4·26 in. or	4·5 per cent.
,,	Neath (Glyncorrwg)	3·10 ,,	2·9 ,,

MAY 24TH.

III.	Cheshunt College	1·88 in. or	7·0 per cent.
IV.	Waltham Abbey	1·84 ,,	6·8 ,,

JUNE 4TH.

VII.	Leicester (Humberstone)	1·60 in. or	6·2 per cent.
,,	Thurcaston Rectory	1·75 ,,	6·2 ,,
,,	,, (Cropston)	2·11 ,,	6·4 ,,
,,	Swithland	1·86 ,,	6·4 ,,
,,	,, (The Brand)	1·96 ,,	6·2 ,,
,,	Stubton [Newark]	1·85 ,,	6·9 ,,
,,	Louth (Gospelgate)	2·30 ,,	6·9 ,,
,,	,, (Westgate)	2·28 ,,	6·7 ,,
,,	Wroot Engine	1·62 ,,	6·7 ,,
,,	N. Level Engine [Thorne Doncaster]	1·43 ,,	6·1 ,,
,,	Newark (East Stoke)	2·52 ,,	9·3 ,,
,,	Southwell (Grants)	2·61 ,,	9·0 ,,
,,	,, (Farnsfield)	2·59 ,,	8·6 ,,
,,	Mansfield (Forest Villa)	2·13 ,,	6·5 ,,
,,	,, (Market Place)	2·28 ,,	6·3 ,,
,,	Ollerton (Thoresby)	2·00 ,,	6·8 ,,
,,	Worksop (Osberton Gardens)	1·64 ,,	6·0 ,,
,,	The Gardens [Bawtry Hall]	1·68 ,,	6·5 ,,
,,	Hesley Hall [Tickhill]	1·50 ,,	6·1 ,,
,,	Stretton (Lindway Res.)	1·75 ,,	7·0 ,,
,,	Stuffynwood Hall [Mansfield]	2·10 ,,	6·4 ,,
,,	Chesterfield (Tapton House)	1·98 ,,	6·2 ,,
,,	,, (Tapton Grove)	1·80 ,,	6·0 ,,
IX.	Tickhill	1·53 ,,	6·2 ,,
,,	Wath-upon-Dearne (West Melton)	1·46 ,,	6·2 ,,
,,	Doncaster (Pumping Station)	2·17 ,,	8·0 ,,
,,	,, (Magdalens)	1·81 ,,	7·0 ,,
,,	Barnsley (Church Street)	1·92 ,,	7·2 ,,
,,	,, (Wellington Street)	1·95 ,,	7·2 ,,
,,	,, (Cawthorne)	1·96 ,,	6·1 ,,
,,	Doncaster (Kirk Bramwith)	1·59 ,,	6·4 ,,
,,	,, (Owston)	2·09 ,,	8·0 ,,
,,	,, (Burghwallis Rec.)	2·08 ,,	8·0 ,,
,,	Patrington (Spurn Head)	1·18 ,,	6·5 ,,

As will be seen, this R was chiefly in the N. Midland Counties where it produced considerable floods—stated to have been in Nottinghamshire greater than any since 1857.

JUNE 22ND.

II.	Rochester (Abbot's Court, Hoo)	1·28 in. or	6·4 per cent.
,,	Ash, Pettings House	1·75 ,,	7·4 ,,

A local heavy R confined to Kent.

JUNE 25TH.

VII.	Derby (All Saints' Works)	1·93 in. or	6·6 per cent.
VIII.	Baddiley (Nantwich W. W.)	2·68 ,,	8·2 ,,
,,	Chester (Rowton Grange)	2·40 ,,	8·0 ,,
,,	,, (Christleton Hall)	2·36 ,,	7·3 ,,

VIII.	Chester (Waterworks)	2·44 in.	or 8·0	per cent.
,,	,, (The Nurseries)	2·24 ,,	6·9	,,
,,	Neston (Hinderton)	2·19 ,,	6·7	,,
,,	Frodsham (Fox Hill)	2·20 ,,	6·9	,,
,,	,, (Dunsdale)	2·10 ,,	6·0	,,
,,	Thurstaston (Dawpool)	2·05 ,,	6·5	,,
,,	Hoylake (The Chase East)	1·83 ,,	6·5	,,
,,	Birkenhead (Bidston Observatory)	2·03 ,,	6·4	,,
,,	New Brighton (Stanley Rock)	1·99 ,,	6·4	,,
,,	Garston (Grassendale Park)	2·40 ,,	6·7	,,
,,	Liverpool (Hope Street)	1·95 ,,	6·1	,,
XI.	Wrexham (Is-y-coed)	2·07 ,,	6·7	,,
XXIII.	Stoneyford (Belfast W.W.)	2·26 ,,	6·6	,,

These amounts fell during the series of violent TSS which prevailed over Cheshire, Lancashire and the adjacent counties nearly all day long, and produced the damage mentioned *ante* pp [18—19]. At Grassendale Park the max. of 2·40 in. is said to be the greatest there on any one day for 14 years.

JULY 3RD.

IV.	Braintree (Bocking Place)	1·51 in.	or 6·1	per cent.

JULY 17TH.

III.	Papworth Hall	1·83 in.	or 6·2	per cent.

JULY 19TH.

II.	Battersea Creek	1·67 in.	or 6·4	per cent.
XIX.	Sanda (Start Point)	1·70 ,,	6·4	,,
,,	Sumburghead	3·00 ,,	9·9	,,
,,	,, (Dunrosenes)	2·60 ,,	6·9	,,
,,	Bressay Lighthouse	3·00 ,,	7·1	,,

JULY 21ST.

IV.	Acle Rectory	2·25 in.	or 8·6	per cent.

JULY 22ND.

IX.	Bedale (Thorpe Perrow)	1·90 in.	or 7·1	per cent.
X.	Egglescliffe [Yarm]	1·12 ,,	6·0	,,
,,	Houghton-le-Spring (Myre Hall)	2·10 ,,	7·0	,,

JULY 26TH.

II.	Lewes (Iford)	2·53 in.	or 6·5	per cent.

JULY 27TH.

II.	Maidstone (Linton)	1·64 in.	or 6·2	per cent.
,,	Sheldwich	2·19 ,,	6·8	,,
,,	Selling (Harefield)	2·11 ,,	6·4	,,
,,	Canterbury (Harbledown)	1·74 ,,	6·6	,,
,,	,, (Sewage Works)	2·09 ,,	7·0	,,
,,	Reculver (Brook)	2·17 ,,	9·1	,,
,,	Sheppey (Leysdown)	1·22 ,,	6·0	,,

JULY 30TH.

IV.	Lowestoft (Bryn-y-Môr)	1·57 in. or	6·2 per cent.
VII.	Burton-on-Stather Vicarage	1·70 ,,	6·1 ,,
IX.	Beverley (Alexandra Terrace)	1·98 ,,	8·0 ,,
,,	,, (East Riding Asylum)	2·35 ,,	9·4 ,,
,,	Driffield (Beverley Road)	1·54 ,,	6·3 ,,
,,	Lowthorpe (The Elms)	2·21 ,,	8·5 ,,
,,	Hull (Tranby Park)	1·86 ,,	6·7 ,,

AUGUST 9TH.

XI.	Llanberis (Glyn Padarn)	4·05 in. or	2·9 per cent.

AUGUST 10TH.

III.	Ely (Stretham)	2·05 in. or	7·0 per cent.

AUGUST 13TH.

Under this date there will be found in the observers' notes page [24] details of considerable damage in Lancashire caused by heavy rain, and it is somewhat strange that at no station was the fall heavy enough to claim a place in this section. The largest fall at any station was 2·42 in., or ·08 in. below the limit of 2·50 in., and the greatest percentage was 5·8, also below the limit by 0·2 per cent. The floods were, however, quite as much due to the wetness of the early part of the month as to the fall on the above date—which over central Lancashire was about two inches on the 13th, followed by a third of an inch on the 14th.

AUGUST 20TH.

II.	Ewhurst (Heathside)	2·50 in. or	6·6 per cent.
,,	,, (Coneyhurst)	2·63 ,,	6·7 ,,
,,	Chichester (West Dean)	2·53 ,,	5·3 ,,
,,	Havant (Farlington)	1·65 ,,	6·0 ,,
III.	Stotfold [Baldock]	1·79 ,,	6·3 ,,
,,	Guilden Morden [Royston]	1·53 ,,	6·1 ,,
,,	Trumpington (Gilmerton)	1·66 ,,	6·3 ,,
,,	Granchester Mill	1·67 ,,	6·2 ,,
,,	Cambridge (W. W. Cherryhinton)	1·89 ,,	7·1 ,,
,,	,, (Sidney Street)	1·58 ,,	6·6 ,,
IV.	East Mersea	2·07 ,,	9·3 ,,
XXII.	Banagher	1·69 ,,	6·0 ,,

As far as regards number of stations, this was the most frequently reported date of max. fall during 1891, as it was the max. over nearly the whole of the South of England, the amounts, however, seldom reached 2·00 in. or 5 per cent., and were probably on the average about 1·30 in. and 4 per cent.

AUGUST 24TH.

VIII.	Ulverston (Colton)	2·65 in. or	4·4 per cent.
,,	Blawith	2·58 ,,	4·1 ,,
,,	Hawkshead (Grizedale Hall)	2·53 ,,	3·7 ,,

VIII.	Hawkshead (Esthwaite Lodge	2·71	in. or	3·7	per cent.
,,	Monk Coniston Park	3·25	,,	3·8	,,
,,	Skelwith Fold [Ambleside]	3·04	,,	3·5	,,
IX.	Sedbergh (Brig Flatts)	3·11	,,	5·1	,,
,,	,, (Thorn Hall)	3·11	,,	4·9	,,
X.	Duddon Valley (Ulpha Vic.)	2·58	,,	3·3	,,
,,	Seathwaite	6·14	,,	4·2	,,
,,	Wythburn Vicarage	5·28	,,	4·3	,,
,,	Borrowdale Vicarage	4·41	,,	3·6	,,
,,	Buttermere (Hassness)	4·85	,,	3·9	,,
,,	Kendal (Natland Park)	3·61	,,	6·4	,,
,,	,, (Hill Top)	3·45	,,	6·3	,,
,,	,, (Kent Terrace)	2·87	,,	5·3	,,
,,	,, (Hawesmead)	2·70	,,	5·2	,,
,,	,, (Ellergreen)	3·10	,,	5·1	,,
,,	Bowness (Fallbarrow)	2·55	,,	3·8	,,
,,	Longsleddale	3·11	,,	4·0	,,
,,	Dungeon Ghyll	4·25	,,	3·4	,,
,,	Grasmere (Pavement End)	3·53	,,	3·5	,,

AUGUST 25TH.

IX.	Hawes Junction	3·89	in. or	5·3	per cent.
X.	Keswick (Barrow House)	3·01	,,	3·4	,,
,,	Ambleside (Nook Cottage)	2·68	,,	3·2	,,
,,	,, (Lesketh Howe)	2·78	,,	3·1	,,
,,	Grasmere (High Close)	3·40	,,	3·6	,,
,,	Patterdale Hall	4·15	,,	3·9	,,
XI.	Treherbert	2·75	,,	2·6	,,
,,	Colbren (Penwyllt)	2·54	,,	2·8	,,

At first sight the above entries look as if they proved much inaccuracy in the date of entry, but that is not the case. There were two consecutive very wet days and at some the first, at some the second, was the wetter; the fall altogether was so heavy that we have prepared the following table of stations at which the fall in the two days was at least five inches. The entries would have been even more numerous but that for some stations we have not the daily amount for *both* days. It will be seen that at the wettest station upwards of *ten inches fell in 48 hours*, three stations had more than eight inches, eight had more than six inches, and twenty more than five inches.

Division.	Station.	August 24th. in.		August 25th. in.		Total in 48 hours. in.
VIII.	Hawkshead, Esthwaite Lodge	2·71	...	2·46	.....	5·17
,,	Duddon Valley, Seathwaite Vic...	2·94	...	2·99	.....	5·93
,,	Monk Coniston Park	3·25	...	2·70	.....	5·95
,,	Skelwith Fold [Ambleside]	3·04	...	2·88	.....	5·92
IX.	Sedbergh, Brig Flatts	3·11	...	2·18	.....	5·29
X.	Duddon Valley, Ulpha Vicarage..	2·58	...	2·49	.....	5·07
,,	Seathwaite	6·14	...	4·10	.....	10·24
,,	Wythburn Vicarage	5·28	...	1·65	.....	6·93
,,	Borrowdale Vicarage	4·41	...	3·85	.....	8·26
,,	Buttermere, Hassness	4·85	...	4·31	.....	9·16
,,	Keswick, Barrow House	2·27	...	3·01	.....	5·28

Division.	Station.	August 24th. in.	August 25th. in.	Total in 48 hours in.
X.	Kendal, Natland Park	3·61	1·77	5·38
,,	Dungeon Ghyll	4·25	3·41	7·66
,,	Ambleside, Nook Cottage	2·44	2·68	5·12
,,	,, Lesketh Howe	2·59	2·78	5·37
,,	Elterwater	3·07	3·50	6·57
,,	Grasmere, High Close	2·54	3·40	5·94
,,	Skelwith Bridge	2·94	3·05	5·99
,,	Grasmere, Pavement End	3·53	3·43	6·96
,,	Patterdale Hall	2·24	4·15	6·39

AUGUST 27TH.

XI.	Rhiwbryfdir, Oakley Quarries	3·92 in. or	3·8 per cent.

AUGUST 31ST.

V.	Sheepstor (Head Weir)	2·65 in. or	3·6 per cent.

SEPTEMBER 1ST.

XVIII.	Ben Nevis Observatory	4·93 in. or	2·8 per cent.
,,	Loch Shiel (Glenaladale)	2·75 ,,	2·6 ,,
,,	Glenquoich	4·07 ,,	3·7 ,,

SEPTEMBER 5TH.

X.	Borrowdale (Grange)	4·45 in. or	4·0 per cent.

SEPTEMBER 20TH.

XIII.	Peebles (Kailzie)	2·80 in. or	6·2 per cent.
,,	Eddlestone (Portmore Res.)	3·30 ,,	8·2 ,,
,,	Coldstream (The Hirsel)	1·66 ,,	6·3 ,,
,,	Duns Castle	2·76 ,,	8·6 ,,
,,	St. Abb's Head	1·60 ,,	6·5 ,,
,,	Haddington Asylum	1·98 ,,	7·0 ,,
,,	Moorfoot Hills (Gladhouse Res.)	3·18 ,,	8·1 ,,
,,	,, (Roseberry)	3·55 ,,	9·1 ,,
,,	Gorebridge (Middleton)	3·35 ,,	8·3 ,,
,,	Penicuick (Edgelaw Res.)	3·50 ,,	8·9 ,,
,,	Pentland Hills (Glencorse Res.)	3·60 ,,	8·2 ,,
,,	Liberton (Alnwick Hill Res.)	2·25 ,,	6·6 ,,
,,	Edinburgh (Blacket Place)	1·94 ,,	6·6 ,,
,,	,, (Royal Observatory)	1·69 ,,	6·7 ,,
XVI.	Buddonness	1·84 ,,	7·7 ,,
,,	Dundee (Harbour)	2·00 ,,	6·8 ,,
,,	Broughty Ferry (Douglas House)	2·33 ,,	8·2 ,,
,,	Dundee (Eastern Necropolis)	2·05 ,,	7·1 ,,
,,	,, (Camperdown Jute Works)	1·51 ,,	6·4 ,,
,,	Monifieth (Fountain Brae)	2·00 ,,	7·3 ,,
,,	,, (Sea View)	2·30 ,,	8·9 ,,
,,	Craigton	2·14 ,,	6·1 ,,
,,	Arbroath (Waterworks)	2·06 ,,	8·8 ,,
,,	Montroseness	2·10 ,,	10·0 ,,
,,	Montrose (Panmure Gardens)	2·15 ,,	7·5 ,,
,,	,, (Sunnyside Asylum)	4·00 ,,	14·4 ,,
XVII.	Fettercairn	2·95 ,,	9·6 ,,
,,	Girdleness	2·18 ,,	11·9 ,,
,,	Cromar (Logie Coldstone Manse)	1·92 ,,	6·8 ,,
,,	Aberdeen (Cranford)	2·70 ,,	9·0 ,,
,,	,,	2·19 ,,	7·7 ,,
,,	,, (King's College)	2·48 ,,	8·7 ,,

XVII.	Midmar (Blackstock)	1·50 in. or	7·2 per cent
,,	,, (Dun Echt Observatory)	1·96 ,,	7·7 ,,
,,	Old Deer	2·08 ,,	7·3 ,,
,,	New Deer (Artamford Cottage)	1·90 ,,	6·8 ,,

The most important R of the year in the eastern portion of Scotland, and exceptionally heavy in the neighbourhood of Montrose.

SEPTEMBER 30TH.

VIII.	Duddon Valley (Seathwaite Vic.)	3·27 in. or	3·7 per cent.

OCTOBER 4TH.

XVIII.	N. Uist (Loch Maddy)	3·65 in. or	6·0 per cent.

OCTOBER 5TH.

V.	Ashburton (Holne Vicarage)	2·88 in. or	3·7 per cent.
VI.	Hereford	1·72 ,,	6·1 ,,
XX.	Kenmare (Derreen)	2·88 ,,	3·9 ,,

OCTOBER 6TH.

VI.	Gloucester (Wotton Asylum)	1·96 in. or	6·2 per cent.

OCTOBER 7TH.

XV.	Holy Loch (Rosmor)	2·65 in. or	3·4 per cent.

OCTOBER 13TH.

XI.	Cardiff W.W. (Cwm Taff Fawr, No. 1)	2·84 in. or	2·8 per cent.

NOVEMBER 10TH.

XXI.	Wexford (Bann-aboo)	2·62 in. or	6·0 per cent.
,,	,, (Alma)	2·62 ,,	5·8 ,,
,,	,, (Felt House)	2·06 ,,	6·5 ,,
,,	Enniscorthy (Ballyhyland)	2·60 ,,	5·5 ,,
,,	Oulart (Wells)	2·52 ,,	5·6 ,,
,,	Bray (Fassaroe)	2·54 ,,	5·6 ,,
,,	Killiney (Cloneevin)	1·84 ,,	7·3 ,,
,,	Dalkey (Belle Vue Park)	1·50 ,,	6·3 ,,
,,	Greystones (Knockdolian)	2·33 ,,	6·7 ,,

NOVEMBER 13TH.

XII.	Stoneykirk (Ardwell House)	2·78 in. or	7·8 per cent.

DECEMBER 7TH.

X.	Newcastle (Portland Road)	1·64 in. or	6·4 per cent.

DECEMBER 9TH.

XI.	Lake Vyrnwy	2·70 in. or	4·0 per cent.

DECEMBER 12TH.

XI.	Mountain Ash (Maesydderwen)	2·52 in. or	3·4 per cent

ABSTRACT.

As may have been anticipated from various remarks in the "Introduction" and "Chronicle" there does not appear to be anything

exceptional in the daily falls of 1891 ; that there were very few in the early part of the year does not affect us here, where we have solely to consider the actual amount falling on individual rainfall days, *i.e.*, between 9 a.m. on one day and 9 a.m. on the next.

Taking first Table I. ; Seathwaite, as is frequently the case, heads the list with 6·14 in. on August 24th, but if we look at the fifth column of Table II. we shall see that in at least four previous years and possibly in more 6·14 in. has been exceeded there.* It is in fact, we believe, about the usual total for the wettest day in the year at that beautiful, though sometimes rainy, spot.

It may be thought that the figures in Table II. contradict the above conclusions. Until explained they appear to do so. According to Table II. the average of the 16 greatest falls in each of the previous 26 years was 3·62 in. ; in 1891 it was 4·38 in. or 0·76 in. above the average. The explanation of the contradiction is simple and complete. Thanks chiefly to Mr. Stephen A. Marshall several new daily records have been established at wet stations in the English Lake District, and it is the presence of these records in Table I. which has made Table II. apparently contradict the conclusion at which we have arrived, and which we are sure is correct.

Tables III. and IV. confirm our conclusion, that on the whole the heavy rains on individual days in 1891 were not remarkable. The only one that can claim special attention is that of September 20th, already dealt with in the previous section. The 4·00 in. reported from Sunnyside Asylum, Montrose, was one of those great falls at dry stations which occur perhaps only once in a century at any one spot, but which occur too often when observers are not on the alert, and sometimes fill the rain gauges to overflowing. With that exception, there is nothing that needs comment.

Finally we come to Table V. which deals not with a selected number of exceptionally heavy falls, but with the heaviest fall in any one day of the year, whatever its amount may be, at all available stations. And *en passant* we hope for a little sympathy from our readers when they notice that the last line of that table is based on more than *two thousand separate calculations.* Is it any wonder that *British Rainfall* is some months in preparation ?

The final result is to show that the heavy falls were of precisely the average amount, but as the year was rather wet, the percentages are slightly less than usual.

* As recently as 1890 Seathwaite had 6·79 in., but it does not appear in Table II. because it was eclipsed by 7·29 in. at Ben Nevis.

TABLE I.—*Maximum Falls in* 1891.

Date.	Div.	Station.	Depth.	Per Cent.	Fall in year.
Aug. 24 ...	X.	Seathwaite	6·14in.	4·2	147·19 in.
,, ,, ..	,,	Wythburn Vicarage	5·28 ,,	4·3	121·68 ,,
Sep. 1 ...	XVIII.	Ben Nevis Observatory	4·93 ,,	2·8	177·98 ,,
Aug. 24 ...	X.	Buttermere, Hassness	4·85 ,,	3·9	124·93 ,,
Sep. 5 ...	,,	Borrowdale, Grange	4·45 ,,	4·0	110·50 ,,
Aug. 24 ...	,,	,, Vicarage	4·41 ,,	3·6	123·82 ,,
Apl. 30 ...	XI.	Rhondda, Castell-nos, Res....	4·26 ,,	4·5	94·19 ,,
Aug. 24 ...	X.	Dungeon Ghyll	4·25 ,,	3·4	123·36 ,,
,, 25 ...	,,	Patterdale Hall.....	4·15 ,,	3·9	105·32 ,,
Sep. 1 ...	XVIII.	Glenquoich	4·07 ,,	3·7	109·34 ,,
Aug. 9 ...	XI.	Llanberis, Glyn Padarn	4·05 ,,	2·9	141·09? ,,
Sept. 20 ...	XVI.	Montrose, Sunnyside Asylum	4·00 ,,	14·4	27·71 ,,
Aug. 27 ...	XI.	Oakley Quarries	3·92 ,,	3·8	102·67 ,,
,, 25 ...	IX.	Hawes Junction	3·89 ,,	5·3	73·13 ,,
Feb. 10 ...	XVIII.	Glencarron Lodge	3·73 ,,	4·1	90·23 ,,
Oct. 4 ...	,,	N. Uist, Loch Maddy.....	3·65 ,,	6·0	61·12 ,,

TABLE II.—*Comparison of Maximum Falls with those in previous years.*

	MEAN.			ABSOLUTE.			
Years.	Depth.	Per Cent.	Mean total fall at these stations.	Depth.	Per Cent.	Station.	Division.
	in.		in.	in.			
1865 ...	3·67	6·4	61·8	6·41	5·5	Seathwaite.....	X.
1866 ...	3·40	—4·4	86·2	6·38	3·6	Seathwaite.....	,,
1867 ...	3·17	9·0	—42·5	4·78	+17·7	Hartlip	II.
1868 ...	3·32	6·1	65·9	5·60	4·8	Camusinas.....	XV.
1869 ...	3·68	5·0	77·7	6·70	4·5	Seathwaite.....	X.
1870 ...	3·20	7·5	43·8	6·00	17·1	Tongue	XIX.
1871 ...	3·08	5·7	61·6	4·24	9·6	Melbury.....	V.
1872 ...	4·10	6·6	73·1	5·82	3·2	Seathwaite.....	X.
1873 ...	2·97	6·2	60·7	4·20	—2·9	Seathwaite	,,
1874 ...	3·96	4·6	86·5	5·32	4·4	Bryn Gwynant	XI.
1875 ..	4·52	7·8	63·9	5·33	9·7	NewportW.W.	,,
1876 ...	3·37	5·9	57·6	4·50	5·5	Foffany	XXIII.
1877 ...	3·77	4·6	93·4	4·98	5·3	Skye, Portree..	XVIII.
1878 ...	3·57	7·4	57·2	4·24	8·6	Springfield ...	XI.
1879 ...	3·66	+9·5	50·4	—4·05	4·1	Little Langdale	X.
1880 ...	3·50	7·7	51·1	4·75	3·9	Seathwaite.....	,,
1881 ...	3·65	4·9	83·1	5·42	4·7	Sligachan	XVIII.
1882 ...	3·28	4·5	84·3	4·51	3·0	Seathwaite ...	X.
1883 ...	3·69	6·1	72·4	5·27	9·0	Glenesmoel ...	XXI.
1884 ...	3·45	4·7	80·7	6·78	5·0	Seathwaite ...	X.
1885 ...	3·45	5·8	68·2	4·62	3·2	Seathwaite ...	,,
1886 ...	3·77	7·7	58·7	4·20	9·9	Little Bredy ...	V.
1887 ...	—2·83	6·1	56·8	4·93	13·0	Galway	XXII.
1888 ...	4·20	5·9	77·0	5·20	5·4	Wythburn Vic.	X.
1889 ...	3·89	9·9	49·2	4·45	16·5	N. Ockendon..	IV.
1890 ..	+5·01	6·9	95·1	+7·29	3·7	Ben Nevis	XVIII.
Mean ...	3·62	6·4	67·7	5·23	7·1	.....	...
1891 ...	4·38	4·7	+108·4	6·14	4·2	Seathwaite.....	X.
Diff ...	+ ·76	—1·7	+40·7	+ ·91	—2·9	.....	...

TABLE III.—*Maximum Per Centages in* 1891.

Date.	Div.	Station.	Per Cent.	Depth.	Fall in year.
Sept. 20 ...	XVI.	Montrose, Sunnyside Asylum	14·4	4·00 in.	27·71 in.
,, ,, ...	XVII.	Girdleness	11·9	2·18 ,,	18·27 ,,
,, ,, ...	XVI.	Montroseness	10·0	2·10 ,,	21·09 ,,
July 19 ...	XIX.	Sumburghhead	9·9	3·00 ,,	30·45 ,,
Sept. 21 ...	XVII.	Fettercairn	9·6	2·95 ,,	30·59 ,,
July 30 ...	IX.	Beverley, East Riding Asylum	9·4	2·35 ,,	24·88 ,,
June 4 ...	VII.	Newark, E. Stoke	9·3	2·52 ,,	27·48 ,,
Aug. 20 ...	IV.	East Mersea Rect.	9·3	2·07 ,,	22·26 ,,
Sept. 20 ...	XIII.	Moorfoot Hills, Rosebery ...	9·1	3·55 ,,	38·85 ,,
July 27 ...	II.	Reculver, Brook	9·1	2·17 ,,	23·95 ,,
Sept. 20 ...	XVII.	Aberdeen, Cranford.....	9·0	2·70 ,,	29·87 ,,
Mar. 16 ...	XIII.	Whittinghame Gardens	9·0	2·62 ,,	29·12 ,,
June 4 ...	VII.	Southwell, Grants	9·0	2·61 ,,	29·07 ,,
Sept. 20 ...	XIII.	Penicuick, Edgelaw Res. ...	8·9	3·50 ,,	39·22 ,,
,, ,, ...	XVI.	Monifieth, Sea View	8·9	2·30 ,,	25·98 ,,
,, ,, ...	,,	Arbroath Waterworks	8·8	2·06 ,,	23·50 ,,

TABLE IV.—*Comparison of Max. Per Centages with those in previous years*

	MEAN.			ABSOLUTE.			
Years.	Per Cent.	Depth.	Mean total fall at these Stations.	Per Cent.	Depth.	Station.	Division.
		in.	in.		in.		
1865 ...	9·9	2·62	28·4	13·0	4·40	Fleckney.....	VII.
1866 ...	8·1	2·31	29·3	10·0	—2·48	Burton	VI.
1867 ...	11·0	2·85	25·3	+17·7	4·78	Hartlip	II.
1868 ...	8·6	2·55	30·1	11·0	4·00	Tongue	XIX.
1869 ...	7·9	2·17	27·9	10·0	3·40	Tillydesk	XVII.
1870 ...	10·0	2·34	22·9	17·1	+6·00	Tongue	XIX.
1871 ...	9·0	2·43	26·8	11·5	3·62	Warter	IX.
1872 ...	8·1	3·43	+42·5	10·0	3·70	Hillington Hall	IV.
1873 ...	9·7	2·39	24·7	11·8	2·77	Oscott	VI.
1874 ...	9·2	2·16	23·7	11·9	2·50	Welwyn.. [Hall	III.
1875 ...	10·2	+3·76	37·5	13·2	3·95	Letheringsett ...	IV.
1876 ...	— 7·4	2·49	33·7	— 8·5	3·70	Cragside	X.
1877 ...	8·2	2·73	33·1	9·3	3·09	Wellington.....	VI.
1878 ...	10·2	3·05	30·0	11·8	3·90	Haverstock Hill	I.
1879 ...	10·9	3·31	30·5	12·3	3·80	CambridgeM. V.	III.
1880 ...	9·5	3·06	32·3	11·7	3·34	Marmont Pr. L.	,,
1881 ...	8·1	2·42	30·3	10·6	3·20	Aboyne Castle..	XVII.
1882 ...	7·7	2·54	33·4	9·1	2·80	Bothalhaugh ...	X.
1883 ...	9·7	3·00	31·1	12·3	4·31	Skegness.....	VII.
1884 ...	11·7	2·33	—20·0	13·8	2·66	Diss(Thelveton)	IV.
1885 ...	8·9	2·71	30·7	9·6	2·62	Beccles, Ellough	,,
1886 ...	10·1	3·32	32·7	11·5	4·10	Methley Park...	IX.
1887 ...	9·5	—2·11	21·9	13·0	4·93	Galway	XXII.
1888 ...	10·9	3·05	28·3	11·8	3·24	Rothamstead ...	III.
1889 ...	12·7	3·51	27·8	16·5	4·45	N. Ockendon...	IV.
1890 ...	+14·4	3·60	25·1	17·2	3·68	Slough Langley	III.
Mean...	9·7	2·78	29·2	12·2	3·67	.....	...
1891 ...	9·7	2·67	27·6	14·4	4·00	Sunnyside Aslm	XVI.
Diff. ...	·0	— ·11	— 1·6	+ 2·2	+ ·33	.....	...

TABLE V.—*Comparison of the Mean of all the Maximum Falls of* 1891 *with similar data for previous years.*

Years.	Number of Returns.	Mean Percentage.	Mean Amount.	Mean Total Fall in year.	Ratio taking 34=100.	Total Fall being assumed =34in. Mean Max. =
			in.	in.		
1865.....	481	+ 5·1	1·70	33	97	5·0 per cent
1866.....	590	3·7	1·48	40	118	4·4 ,,
1867.....	584	4·6	1·44	31	91	4·2 ,,
1868.....	676	4·3	1·43	33	97	4·2 ,,
1869.....	637	4·2	1·42	34	100	4·2 ,,
1870.....	687	4·9	1·30	27	79	3·8 ,,
1871.....	752	4·9	1·49	30	88	4·4 ,,
1872.....	743	— 3·4	1·59	+ 47	+ 138	4·7 ,,
1873.....	809	4·6	1·35	29	85	4·0 ,,
1874.....	1010	4·4	1·41	32	94	4·1 ,,
1875.....	1081	5·0	+1·83	37	109	+5·4 ,,
1876.....	1112	3·9	1·49	38	112	4·4 ,,
1877.....	1180	3·8	1·56	41	121	4·6 ,,
1878.....	1186	4·3	1·49	35	103	4·4 ,,
1879.....	978	4·2	1·52	36	106	4·5 ,,
1880.....	1117	4·8	1·72	36	106	5·1 ,,
1881.....	1194	4·1	1·45	35	103	4·3 ,,
1882.....	1463	3·6	1·42	39	115	4·2 ,,
1883.....	1505	4·0	1·41	35	103	4·1 ,,
1884.....	1691	4·8	1·32	28	82	3·9 ,,
1885.....	1801	4·5	1·41	31	91	4·2 ,,
1886.....	1718	4·6	1·64	35	103	4·8 ,,
1887.....	1921	4·5	—1·14	— 25	— 74	—3·4 ,,
1888.....	1974	4·4	1·41	32	94	4·1 ,,
1889.....	1812	4·8	1·41	29	85	4·1 ,,
1890.....	2081	5·0	1·46	29	85	4·3 ,,
Mean ...	1184	4·4	1·47	34	100	4·3 ,,
1891.....	2218	4·1	1·47	35	103	4·3 ,,
Diff.....	+1034	— ·3	·00	+ 1	+ 3	·0 ,,

DROUGHTS IN 1891.

It will be remembered that after considerable discussion we adopted in 1887 the following definitions of droughts:—

ABSOLUTE DROUGHTS.—Periods of *more than* 14 consecutive days absolutely without R.

PARTIAL DROUGHTS.—Periods of *more than* 28 consecutive days, the aggregate rainfall of which does not exceed 0·01 in. per diem.

For 1888 we selected fifty stations nearly equally spread over the British Isles, and for each subsequent year we have employed as the basis of this section the same stations whenever possible, and when not, then substitutes from the nearest available records. This, therefore, ensures a very close approach to absolute uniformity and comparability.

In 1890 there were so few droughts that we did not print the table *in extenso*, but this year we do so. We prefix the summary and add a few remarks at the end of the table.

The following table gives the corresponding abstracts for four years:—

ABSOLUTE DROUGHTS.

	No. of stations.	Number.	Duration. Average.	Greatest.	Stations without one.
1888	50	17	17 days	20 days	35
1889	50	42	21 ,,	30 ,,	13
1890	50	13	18 ,,	20 ,,	39
1891	50	26	18 ,,	34 ,,	28

PARTIAL DROUGHTS.

	No. of stations.	Number.	Duration. Average.	Greatest.	Stations without one.
1888	50	4	42 days	50 days	46
1889	50	38	34 ,,	45 ,,	15
1890	50	3	30 ,,	31 ,,	47
1891	50	38	36 ,,	49 ,,	14

This shows that the February drought being, by the occasional deposit of moisture as fog or hoar frost, transferred from an "Absolute" to a "Partial" drought, the number of the former is not much above the average. The "Partials" are, however, as numerous and important as in 1889.

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted	Began.	Ended.	Lasted.	Amount.
							in.
London (Camden Square), N.W.. *Middlesex.*	Feb. 8	Mar. 6	27	Jan. 31	Mar. 6	35	·07
Dorking (Abinger Hall) ... . *Surrey.*	Feb. 2	Feb. 20	19	Jan. 31	Mar. 6	35	·33
Hythe..... .... *Kent.*	Feb. 15	Mar. 1	15	Feb. 1	Mar. 8	36	·21
Welwyn (Datchworth Rectory).. *Herts.*	None			Jan. 31	Mar. 6	35	·12
Maxey Vic. [Market Deeping] ... *Northampton.*	None			Feb. 1	Mar. 8	36	·21
Geldeston [Beccles] .... *Norfolk.*	None			Jan. 30	Mar. 6	36	·35
Calne (High Street) ..... *Wilts.*	None			Jan. 31	Mar. 6	35	·35
Torquay (Babbacombe) ..... *Devon.*	None			Jan. 31	Mar. 6	35	·16
Bideford (Northam)..... *Devon.*	None			Feb. 1	Mar. 6	34	·25
St. Austell (Trevarna)..... ..... *Cornwall.*	Feb. 12	Feb. 28	17	Feb. 1	Mar. 6	34	·19
Ilminster (White Lackington) ... *Somerset.*	Feb. 1	Mar. 6	34	Feb. 1	Mar. 6	34	·00
Ross (The Graig) .... *Hereford.*	Feb. 11	Mar. 1	19	Feb. 1	Mar. 8	36	·29
Weston Park [Shiffnal] ... . *Stafford.*	None			Feb. 1	Mar. 13	41	·41
Market Overton .... *Rutland.*	None			Feb. 1	Mar. 5	33	·23
Worksop (Hodsock Priory) ..... *Notts.*	None			Feb. 1	Mar. 6	34	·21
Chesterfield (Gas Works) ..... *Derby.*	Feb. 9	Feb. 27	19	Feb. 1	Mar. 6	34	·22
St. Michael's-on-Wyre ..... *Lancashire.*	None			Jan. 30	Mar. 2	32	·30

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
							in.
Knaresboro' (Farnham) ..... *York, W.R.*	None			Jan. 21	Mar. 6	45	·42
Driffield (York Road) .... *York, E.R.*	None			Jan. 24	Mar. 6	42	·41
Darlington (South End) ..... *Durham.*	Feb. 13	Feb. 27	15	Jan. 18 May 28	Mar. 6 June 25	48 29	·48 ·29
Morpeth (Bothalhaugh) ..... *Northumberland.*	Feb. 14	Mar. 1	16	Jan. 17	Mar. 6	49	·44
Pawston [Coldstream]..... *Northumberland.*	None			Jan. 30	Mar. 4	34	·34
Blencowe School [Penrith]..... *Cumberland*	None			Feb. 4	Mar. 4	29	·24
Chepstow (Shirenewton Hall) .. *Monmouth*	None			Feb. 1	Mar. 6	34	·14
Haverfordwest (High Street) ... *Pembroke.*	None			Feb. 1	Mar. 7	35	·25
Churchstoke (Mellington Hall)... *Montgomery.*	Feb. 12	Feb. 28	17	Feb. 1	Mar. 14	42	·32
Halkyn .... *Flint.*	Feb. 9	Feb. 28	20	None			
Carnarvon (Cocksidia)..... *Carnarvon.*	None			Feb. 3	Mar. 5	31	·25
Garliestown (Galloway House)... *Wigton.*	June 3 Oct. 22	June 24 Nov. 6	22 16	None			
Cargen [Dumfries] ..... *Kirkcudbright.*	June 2 Oct. 23	June 24 Nov. 7	23 16	None			
Melrose Asylum .... *Roxburgh.*	None			Feb. 1	Mar. 4	32	·29
Edinburgh (Blacket Place)..... *Edinburgh.*	None			Feb. 4 Mar. 26	Mar. 9 April 30	34 36	·30 ·31
Old Cumnock ... . *Ayr.*	Feb. 12	Feb. 27	16	None			
Killearn (Old Ballikinrain) ..... *Stirling.*	April 10 May 30	April 26 June 13	17 15	None			

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
							in.
Strontian (Laudale) .... *Argyll.*	None			None			
Islay (Ardbeg) ..... *Argyll.*	None			None			
Kirriemuir (Lintrathan) ... . *Forfar.*	Feb. 13 May 31	Mar. 2 June 15	18 16	Feb. 2	Mar. 2	29	·21
Cromar (Logie Coldstone) .. .. *Aberdeen.*	Feb. 13	Mar. 1	17	Jan. 23	Mar. 2	39	·34
Alness (Ardross Castle) ..... *Ross.*	May 31	June 14	15	None			
Golspie (Dunrobin Castle) ..... *Sutherland.*	May 30	June 15	17	None			
Dunmanway (Coolkelure) ..... *Cork.*	None			None			
Killarney (Woodlawn) ..... *Kerry.*	None			None			
Portlaw (Mayfield) ..... *Waterford.*	None			None			
Limerick (Kilcornan) ..... *Limerick.*	Oct. 23	Nov. 7	16	Jan. 30	Mar. 13	43	·36
Bray (Fassaroe) ..... *Wicklow.*	None			Jan. 31	Mar. 5	34	·30
Athlone (Twyford) ..... *Westmeath.*	None			Jan. 31	Mar. 1	30	·27
Ballinasloe (Garbally) ..... *Galway.*	None			None			
Collooney (Markree Observatory) *Sligo.*	None			Jan. 31	Mar. 1	30	·29
Belfast (Antrim Road) ..... *Antrim.*	Oct. 21	Nov. 7	18	Jan. 30	Mar. 1	31	·30
Stewartstown (Ardtrea Rec.) ... *Tyrone.*	Oct. 22	Nov. 5	15	None			

Our first remark upon this table is that it brings out a fact which we cannot explain. All who have read the observers' notes upon the months, and especially those upon February, 1891, on pages [41]-[47] will remember that observer after observer reports the month as "rainless, excepting for condensed fog," and that many speak of it as "absolutely rainless." The monthly tables given on subsequent pages [137] to [143] from 232 equidistant stations contain 18 which report ·00 in. as the total for February, and yet out of the 50 stations selected for the present section we have only one at which February was absolutely rainless. If we assume that the above 18 out of 232 is the proper proportion, instead of one, we ought to have had four. There are, as far as we see, only two explanations (1) chance (2) the fact that when selecting the stations for the study of droughts we picked out (subject to equable geographical distribution) the most careful observers that we could, and possibly some of the ·00 in. entries in the monthly table would have been ·01 in. or ·02 in. had the observer been more desirous to be absolutely correct, than to enter a record such as few will live to enter again.

While, however, conscientious entry of even a solitary ·01 in. from condensed fog shuts out many a record of the February drought as an absolute one, it appears as a partial one at three-fourths of the stations and at *every* English station. The only other droughts worth notice were in the early part of June, and at the end of October, but these were very local.

MONTHLY RAINFALL OF 1891.

We give, as usual, information on this subject in many forms.

In the *Meteorological Magazine* we give monthly abstracts of records from 150 stations, and for about 40 of them the difference between the fall in each month, and the average for the same month during the previous decade.

In the Observers' Notes on the Months (see pages [37] to [81]) we have given the general history of the weather; in the following tables (pages [137] to [143] we give the monthly rainfall at each of about 230 stations, and in the two sheets of maps inserted between pages [144] and [145] we show in which part of the country the fall was near the average, and in which it was an inch or more above or below it.

These maps are similar to those given in previous years, and are based upon the following data :—A map was prepared showing the stations of which the records date back to 1880 and are still being continued; 48 stations were then chosen as widely distributed as possible; for each of them the mean rainfall was determined for each month, from the observations made during the decade, 1880-89. Then a table was constructed, showing for each station, whether the fall in each month in 1891 was within an inch of the average, or more than an inch above or below it. Upon the map for each month were then placed marks over the site of each station, indicative of the relation of the fall in that month to the average. The symbols adopted were :—

A round dot when within an inch of the average.
A + when more than an inch above it.
And a — when more than an inch below it.

Lastly, we give on pages [144] to [146] a brief history of the distribution of the fall of rain over the British Isles in each month, and remarks on such monthly totals as have been exceptional.

MONTHLY RAINFALL AT 232 STATIONS IN THE BRITISH ISLES DURING 1891.

ENGLAND.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
I.	Middlesex	London (Camden Sq.)	1·80	·01	2·01	1·13	2·72	·86	3·82	4·75	1·03	4·80	1·98	3·24	28·15
,,	,,	Pinner Hill	1·83	·01	1·17	·78	2·74	1·24	3·36	4·16	1·44	6·00	2·00	3·47	28·20
II.	Surrey	Guildford (Guildown)	2·02	·06	2·09	·87	2·86	1·18	2·63	4·55	1·19	6·80	3·23	3·29	30·77
,,	Kent	Tenterden	3·20	·06	2·14	·68	3·06	1·63	2·84	4·80	·60	5·69	2·33	3·64	30·67
,,	,,	Hythe	3·05	·02	3·18	·50	3·99	1·64	2·51	4·04	·83	4·65	2·63	2·98	30·02
,,	,,	Sevenoaks (River Hill)	2·78	·03	2·38	·57	3·27	1·85	3·86	3·48	·98	6·46	2·31	3·67	31·64
,,	,,	Ospringe (Lorenden)	2·74	·14	2·65	·40	2·82	2·27	3·11	3·47	·65	5·34	1·79	2·75	28·13
,,	Sussex	Worthing (Heene)	2·43	·09	2·17	·52	2·14	1·84	3·06	4·36	·93	6·10	3·14	2·65	29·43
,,	,,	Maresfield (Forest Lodge)	2·90	·12	2·42	·39	3·09	1·83	3·36	4·96	1·33	9·16	3·51	3·97	37·04
,,	Hants	I. of Wight (Sandown)	3·29	·05	2·68	·78	2·06	2·11	2·62	6·96	·84	7·73	3·77	4·59	37·48
,,	,,	Bps. Waltham (Swanmore)	2·81	·00	2·49	·93	2·27	1·65	2·01	6·69	1·69	8·28	4·52	5·18	38·52
,,	,,	Basingstoke (Sherborne)	2·13	·01	2·43	·98	3·55	·85	2·23	4·65	1·49	9·47	2·89	4·54	35·22
,,	Berks	Newbury (Welford)	1·94	·06	2·19	1·11	2·76	·85	3·10	5·89	1·86	8·53	3·16	5·81	37·26
III.	Herts	Hertford (Bayfordbury)	2·07	·03	1·90	·68	3·52	1·91	1·99	3·86	1·01	5·34	2·02	3·87	28·20
,,	,,	Royston	1·57	·02	1·63	·57	3·01	2·17	2·32	3·54	1·20	5·05	1·75	3·11	25·94
,,	Bucks	Greenlands [Henley-on-Thames]	1·99	·00	1·57	1·02	2·87	1·78	3·39	6·11	1·18	10·99	2·18	4·26	37·34
,,	,,	Buckingham (Adstock)	1·93	·00	1·49	1·56	3·59	1·18	2·14	5·47	·61	6·80	1·97	3·57	30·31
,,	Oxford	Oxford (Magdalen Coll.)	1·40	·00	1·55	1·41	2·15	1·27	2·14	4·51	1·34	5·63	2·18	2·99	26·57
,,	Northampton	Wellingborough (Swanspool)	1·64	·04	1·16	1·06	3·14	3·54	2·29	3·54	·79	5·51	2·62	3·03	28·36
,,	Bedford	Bedford	1·26	·00	1·17	·93	3·30	·97	1·91	3·40	·77	5·73	2·21	2·94	24·59
,,	Cambridge	Ely (Stretham)	1·61	·05	·76	1·08	3·24	1·86	3·75	6·09	·97	4·70	1·66	3·33	29·10
,,	,,	Wisbech	1·73	·05	·72	·80	2·76	1·42	3·25	3·90	·72	4·99	2·30	2·72	25·36
IV.	Essex	Loughton (High Beech)	1·81	·01	1·22	·86	3·39	1·18	2·91	4·42	·97	5·21	2·26	3·55	27·79
,,	,,	Chelmsford (High Street)	1·39	·00	1·74	·53	1·71	1·08	3·65	2·89	·44	3·77	1·58	2·75	21·53
,,	,,	Braintree (Bocking Place)	1·41	·06	1·96	·67	2·11	2·50	4·05	2·74	·87	3·84	1·10	3·27	24·58
,,	Suffolk	Ipswich (Bishop's Hill)	1·69	·05	1·70	·63	2·12	1·01	2·86	2·96	·94	4·69	1·74	2·87	23·26
,,	,,	Haverhill (Great Thurlow)	1·56	·05	1·49	·76	2·33	2·98	3·48	3·50	·93	3·36	1·18	2·56	24·18
,,	,,	Framlingham (Mount Pleasant)	1·68	·08	1·69	·99	2·23	·88	2·88	3·41	·95	3·93	1·71	2·88	23·31
,,	Norfolk	Geldeston [Beccles]	1·78	·05	1·51	·88	2·47	1·19	2·96	4·04	·98	3·88	1·83	2·72	24·29
,,	,,	Swaffham Grammar School	2·42	·03	1·39	1·01	3·19	·71	4·13	4·25	1·02	3·99	1·74	3·49	27·37
,,	,,	Holt (Letheringsett Hall)	2·34	·07	1·47	1·44	3·55	2·26	3·75	4·37	1·04	3·68	1·86	3·63	29·46

ENGLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August	Sept.	Oct.	Nov.	Dec.	Total.
V.	Wilts	Salisbury (Alderbury)	2·35	·01	1·82	1·03	2·94	1·39	2·56	5·34	1·12	9·00	3·94	4·18	35·68
,,	,,	Trowbridge(Steeple Ashton)	2·00	·04	2·41	1·01	2·71	1·15	2·54	6·00	1·61	7·20	2·81	4·42	33·90
,,	,,	Marlborough Mildenhall	2·39	·04	2·12	1·21	2·40	·97	2·55	6·00	1·66	7·26	3·18	4·98	34·76
,,	Dorset	Abbotsbury	3·02	·00	3·00	·72	2·59	2·82	2·18	6·29	2·45	9·07	3·93	4·09	40·16
,,	,,	Wimborne (Chalbury)	3·08	·00	2·84	·96	2·01	2·07	2·13	6·06	1·29	9·06	4·63	4·68	38·81
,,	,,	Shaftesbury	2·02	·06	2·75	1·01	3·24	1·61	2·89	6·44	2·56	8·17	3·19	4·16	38·10
,,	Devon	Brixham (Lupton)	3·60	·00	3·68	1·40	3·36	4·10	2·83	6·27	1·33	10·85	5·69	6·90	50·01
,,	,,	Walkhampton(Lowery)(5in.)	6·34	·09	3·96	3·38	4·72	3·22	4·44	11·03	5·08	14·19	7·06	9·43	72·94
,,	,,	Ilsington (Middlecott Ho.)	4·79	·00	3·41	1·95	3·66	4·23	2·68	6·93	2·60	12·00	7·50	7·18	56·93
,,	,,	Cullompton	2·76	·07	1·85	1·42	2·94	1·43	3·09	6·26	1·95	7·89	4·72	4·85	39·23
,,	,,	South Molton (Rose Ash)	3·60	·21	3·05	1·62	3·04	·90	4·04	8·17	3·45	5·97	3·02	5·85	42·92
,,	Cornwall	Penzance (Penlee)	3·28	·11	3·55	2·26	3·15	2·96	1·65	7·09	4·21	9·20	5·28	5·82	48·56
,,	,,	St. Agnes	2·37	·14	2·47	2·22	2·15	2·58	1·95	6·04	3·95	8·41	4·51	4·74	41·53
,,	,,	Bude	2·26	·49	2·49	1·81	2·59	2·12	2·21	5·07	4·86	5·90	2·89	4·79	37·48
,,	Somerset	Ilminster (White Lackington)	2·61	·00	2·79	·81	3·96	1·43	3·11	6·37	2·00	9·95	4·91	5·10	43·04
,,	,,	Glastonbury (Street)	1·53	·07	1·82	·91	2·89	1·32	2·58	5·78	2·19	7·06	2·86	3·79	32·80
,,	,,	Dunster (Knowle)	4·10	·00	2·34	1·06	4·32	1·51	4·00	5·42	2·43	8·46	4·49	5·75	43·88
VI.	Gloucester	Clifton (South Parade)	3·83	·00	2·80	1·23	3·78	2·32	3·18	7·44	2·33	8·49	2·49	4·63	42·52
,,	,,	Stroud (Upfield)	2·62	·00	1·50	1·30	4·46	1·82	3·32	6·65	1·79	6·92	2·54	3·04	35·96
,,	,,	Fairford (Hatherop Rec.)	2·29	·02	1·55	·82	3·40	1·46	2·70	5·77	1·60	6·24	2·24	3·41	31·50
,,	Hereford	Ross (The Graig)	1·91	·01	1·79	1·53	3·73	3·35	1·70	4·90	1·37	6·70	3·02	3·56	33·57
,,	Salop	Ch. Stretton (Woolstaston)	3·14	·06	1·34	2·45	3·69	3·14	2·57	4·49	3·60	6·04	2·74	4·61	37·87
,,	,,	Much Wenlock(Willey Pk.)	1·99	·05	1·43	2·30	4·11	2·53	2·18	3·66	2·64	5·73	2·46	3·42	32·50
,,	,,	Oswestry (Hengoed)	2·28	·06	1·00	2·88	3·38	3·65	2·65	4·92	2·67	5·50	3·08	5·40	37·47
,,	Stafford	Lichfield Museum	2·09	·13	1·59	2·10	3·57	4·03	2·48	4·16	1·37	5·44	2·03	3·28	32·27
,,	,,	Burton (Shobnall)	1·90	·06	1·39	1·68	2·70	2·94	1·94	4·16	1·15	4·18	1·74	3·40	27·24
,,	,,	Etruria	2·53	·05	1·62	1·94	4·12	3·70	1·73	3·94	3·28	5·33	2·49	4·74	35·47
,,	Worcester	Blockley	2·15	·10	1·55	1·30	2·90	1·08	2·07	3·30	1·80	6·45	2·75	3·37	28·82
,,	,,	Malvern (Church St.)	1·86	·10	1·37	1·65	3·53	2·46	1·80	5·10	1·11	7·54	2·74	3·69	32·95
,,	,,	Tenbury (Orleton)	1·99	·07	1·47	2·01	3·75	2·48	1·72	4·01	1·32	7·02	2·78	3·62	32·24
,,	,,	Stourbridge (Pedmore)	2·14	·08	1·25	2·52	3·69	1·93	1·47	4·43	1·50	5·37	2·63	3·05	30·06
,,	Warwick	Leamington(Upper Parade)	1·94	·04	1·06	1·99	3·18	2·08	2·10	4·25	·96	5·61	1·74	2·77	27·72
,,	,,	Bedworth Cemetery	2·22	·11	1·27	2·19	2·87	2·37	2·67	3·54	1·30	6·11	2·16	2·98	29·79
VII.	Leicester	Loughboro'(Nan pantan Res.)	2·05	·09	1·37	2·30	2·68	3·77	2·15	3·61	1·06	4·81	2·53	3·49	29·91
,,	,,	Bottesford	1·42	·06	·85	2·56	2·75	1·93	2·62	3·08	1·36	3·87	2·23	2·67	25·40

ENGLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
VII.	Rutland.....	Market Overton	2·10	·16	1·25	2·01	3·00	2·73	2·48	3·21	1·13	4·82	3·43	3·02	29·34
,,	Lincoln	Horncastle (Queen Street).	1·63	·00	1·21	1·39	2·86	2·53	2·88	2·55	1·64	3·98	2·23	3·01	25·91
,,	,, ...	Barton on Humber(Saxby)	1·49	·08	1·33	2·16	3·12	1·61	2·97	3·35	1·13	3·88	3·36	3·40	27·88
,,	Notts	Ollerton(ThoresbyGardens)	1·23	·13	1·17	1·74	3·61	3·99	2·95	2·81	1·43	3·80	3·07	3·44	29·37
,,	Derby.....	Stoney Middleton	2·92	·13	2·74	1·62	4·29	4·29	2·52	5·42	3·02	5·09	3·35	6·59	41·98
VIII.	Cheshire.....	Congleton(BuglawtonVic.)	1·88	·23	1·92	2·44	3·96	2·17	3·06	3·99	3·10	3·91	2·61	4·51	33·78
,,	Lancashire.....	Manchester (Withington).	2·20	·21	1·44	1·94	2·26	2·32	2·24	5·50	2·90	4·62	2·22	4·80	32·65
,,	,, ...	Ormskirk (Rufford).....	1·78	·09	·92	1·83	2·18	1·81	2·81	7·62	3·89	3·66	4·08	5·96	36·63
,,	,, ...	Burnley (Swinden, Lower)	2·99	·61	2·56	3·02	3·64	1·48	4·11	8·60	3·74	5·71	5·15	9·54	51·15
,,	,, ...	St. Michael's-on-Wyre ...	1·62	·17	·95	2·08	1·71	1·65	3·32	8·91	5·49	3·71	4·66	6·28	40·55
,,	,, ...	Grange (Nutwood)	2·95	·40	1·97	2·17	1·62	1·36	3·01	8·98	6·87	3·48	4·90	7·51	45·22
IX.	York, W.R.	Rotherham (Moorgate Grove,	1·20	·09	1·55	2·13	2·96	2·17	1·66	2·39	2·08	3·14	2·55	4·32	26·24
,,	,, ...	Huddersfield (Dalton).....	2·24	·14	1·82	1·81	3·11	3·02	2·82	5·35	2·56	4·83	2·71	7·41	37·82
,,	,, ...	Leeds (Methley Park).....	1·28	·04	1·31	1·68	2·83	1·60	2·89	4·05	1·62	3·43	2·84	3·83	27·40
,,	,, ...	Malham Tarn	4·94	1·13	4·05	2·48	2·51	2·42	6·08	11·43	4·97	6·20	5·56	9·58	61·35
,,	,, ...	Ripon (Mickley)	2·00	·08	1·56	3·25	2·21	1·03	3·33	4·08	2·36	4·35	3·71	4·68	32·64
,,	York, E.R.	Patrington.....	1·63	·10	1·54	1·10	3·59	1·54	2·07	2·37	1·11	2·91	2·44	2·91	23·31
,,	,, ...	Brantinghamthorpe.....	1·59	·11	1·38	2·69	3·40	1·02	4·04	3·99	2·38	4·51	3·44	3·92	32·47
,,	,, ...	Pocklington (Warter)	2·08	·06	1·82	2·18	2·01	1·17	3·65	4·06	1·09	4·11	3·40	3·54	29·17
,,	York, N.R.	Malton	1·27	·16	1·31	1·43	1·54	·60	3·41	4·00	1·48	3·48	3·00	2·85	24·53
,,	,, ...	Thirsk (Sowerby)	1·14	·04	1·88	1·85	1·93	·32	3·92	3·66	1·69	3·38	2·65	2·47	24·93
,,	,, ...	Whitby (Royal Crescent)...	1·20	·01	3·09	2·26	1·79	·22	3·14	2·50	1·67	3·04	2·55	2·71	24·18
,,	,, ...	Lockwood Beck	2·08	·18	3·02	2·67	3·99	·68	5·83	4·84	2·84	3·46	3·12	3·06	35·77
X.	Durham.....	Darlington (South End) ...	1·00	·05	1·52	2·66	2·16	·53	4·40	3·67	1·94	2·96	2·25	2·79	25·93
,,	,, ...	Hartlepool(HurworthBurn)	2·20	·10	3·04	2·95	2·85	·48	3·31	4·90	2·05	1·88	1·99	2·96	28·71
,,	,, ...	Wolsingham	1·67	·11	3·11	4·11	3·78	·86	4·96	5·49	2·63	4·24	3·53	5·00	39·49
,,	Northumberland	Haltwhistle(UnthankHall)	1·77	·22	2·66	1·33	1·31	·76	4·02	5·48	4·69	2·32	2·19	6·08	32·83
,,	,, ...	Morpeth (Meldon Park) ...	1·30	·03	3·81	1·96	2·92	·84	3·73	4·97	3·06	2·50	2·97	4·03	32·12
,,	,, ...	Alwinton (Biddleston) ...	2·07	·05	4·69	2·31	2·12	·91	3·09	6·02	3·93	2·14	2·57	4·75	34·65
,,	,, ...	Howick Hall.....	·83	·11	2·89	·77	1·88	·52	2·10	4·61	3·06	2·54	2·84	3·62	25·77
,,	Cumberland	Borrowdale (Seathwaite)...	11·34	2·60	8·35	7·63	5·46	3·08	5·82	26·99	20·86	15·92	13·89	25·25	147·19
,,	,, ...	Brampton (Denton House)	2·37	·20	1·51	1·35	1·33	1·65	3·65	7·05	5·51	2·04	2·02	6·74	35·42
,,	Westmoreland ...	Kendal (Kent Terrace) ...	4·16	·78	2·20	2·24	2·28	1·02	3·66	10·20	7·07	5·37	5·20	9·71	53·89
,,	,, ...	Kirkby Stephen	2·89	·15	1·79	1·22	2·23	2·00	4·91	10·02	5·54	6·08	4·97	8·95	50·75
,,	,, ...	Lowther Castle.....	2·85	·17	1·89	1·00	2·42	1·93	5·04	7·07	6·31	7·57	4·88	7·58	48·71

MONMOUTH, WALES AND THE ISLANDS.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XI.	Monmouth.....	Chepstow (Shirenewton Hall)	4·51	·09	2·34	2·64	5·17	3·02	3·21	8·75	2·72	8·03	3·98	6·32	50·78
,,	,, ...	Abergavenny(Larchfield) ..	3·15	·06	2·52	2·23	4·25	3·49	1·62	5·06	1·69	10·02	5·17	5·56	44·82
,,	Glamorgan.....	Cardiff Castle	3·48	·03	2·11	1·83	4·23	2·83	2·11	7·25	2·73	7·07	4·11	6·01	43·79
,,	,, ...	Ystalyfera (Tan-yr-allt) ...	5·61	·00	2·54	5·71	3·56	2·94	4·23	9·74	6·80	13·92	3·93	12·26	71·24
,,	Carmarthen	Carmarthen Asylum	4·25	·20	1·42	3·62	3·48	3·13	2·53	8·67	5·54	12·57	4·99	8·94	59·34
,,	,, ...	Llandovery	5·22	·30	2·49	3·04	3·42	2·66	4·44	8·77	4·62	10·61	4·01	9·03	58·61
,,	Pembroke	Stackpole Court	3·19	·14	1·56	1·83	3·68	2·51	2·51	5·07	3·89	9·54	4·89	5·87	44·68
,,	Cardigan	Troedyraur Rectory..... ...	2·75	·37	·93	2·33	3·02	3·51	2·20	4·53	3·85	10·11	4·24	5·85	43·69
,,	,, ...	Aberaeron (Dolaeron).....	2·87	·10	1·42	2·13	2·60	3·01	2·01	4·24	4·47	8·08	3·76	6·17	40·86
,,	Brecknock.....	Brecknock (Cantreff Rec.)	5·62	·12	2·98	3·42	3·94	3·34	2·65	7·92	2·79	13·93	4·55	10·10	61·36
,,	,, ...	Newbridge (Llysdinam) ...	3·99	·13	2·60	1·96	2·87	2·42	2·25	4·76	3·51	6·81	2·85	6·08	40·23
,,	Radnor	Rhayader (Nantgwilt) ...	6·45	·24	4·39	3·91	4·14	3·63	4·21	7·38	4·18	11·59	6·50	12·91	69·53
,,	Montgomery.....	Carno (Tybrith)	4·71	·11	3·30	3·63	2·63	3·07	2·58	5·75	3·83	6·25	3·55	11·51	50·92
,,	Flint	St Asaph (Nantllys)	1·21	·28	·86	1·34	2·58	3·93	1·87	4·69	3·88	2·00	2·59	3·52	28·75
,,	Denbigh..... .	Rosset (Trevalyn Hall) ...	1·27	·16	1·28	1·74	4·10	4·47	1·78	3·89	3·34	3·27	2·26	3·27	30·83
,,	Merioneth	Blaenau Ffestiniog	7·42	1·38	4·58	5·09	4·23	4·10	7·62	17·47	11·80	9·08	6·33	16·15	95·25
,,	,, ...	Corwen (Rhug Gardens) ...	1·63	·00	2·81	2·99	3·54	4·21	2·47	4·57	4·07	5·41	3·88	6·88	42·46
,,	Carnarvon.....	Llanystumdwy (Talarvor)	2·46	·51	·93	2·04	1·85	1·38	1·79	3·17	5·82	6·80	4·31	6·39	37·45
,,	Anglesey	Llanerchymedd (Llwydiarth)	2·08	·41	1·38	1·80	1·66	4·24	2·06	5·47	6·15	6·21	5·40	8·63	45·49
,,	Isle of Man	Douglas (Victoria Road)...	1·85	·24	1·51	2·56	1·48	3·00	1·31	7·56	6·91	6·66	5·79	8·69	47·56
,,	Jersey.....	St. Aubins (Noirmont) ...	2·21	·07	2·33 ?	·79	3·22	2·53	1·28	6·17	1·34	7·72	3·53	4·43	35·62?
,,	Guernsey	Les Ruettes Brayes	3·18	·08	2·78	1·38	2·81	2·34	1·19	5·41	1·81	9·00	3·00	5·11	38·09
		SCOTLAND.													
XII.	Wigton	Garliestown (Galloway House)	1·95	·38	1·94	2·08	1·06	1·59	·53	5·92	3·69	5·64	5·37	6·75	36·90
,,	,, ...	Corsewall	1·59	·00	2·53	1·78	1·69	1·27	1·63	7·15	2·21	2·14	1·97	3·79	27·75
,,	Kirkcudbright ...	Dalbeattie(Colvend Manse)	1·81	·35	1·80	1·27	·27	1·18	2·01	5·72	6·48	6·82	4·62	7·76	40·09
,,	,, ...	New Galloway (Glenlee)...	5·50	·78	4·45	1·98	2·71	1·34	1·22	6·68	6·76	11·03	6·99	10·93	60·37
,,	Dumfries	Moffat (Ericstane)	4·80	·90	4·35	2·15	2·00	2·40	1·60	7·10	6·60	8·00	5·05	11·70	56·65
,,	Roxburgh	New Castleton (The Flatt).	3·70	·50	3·00	1·60	1·90	1·80	3·60	10·60	7·90	3·90	3·40	9·20	51·10
,,	,, ...	Hawick (Branxholme).....	2·57	·23	3·78	1·11	1·71	1·20	2·85	6·67	5·68	3·20	2·83	6·65	38·48
,,	,, ...	Jedburgh	1·17	·09	3·17	1·05	1·85	·90	3·74	4·93	4·29	1·88	2·23	4·92	30·22
XIII.	Selkirk	The Hangingshaw	1·67	·43	4·04	1·20	1·49	·99	3·93	6·31	4·55	3·92	3·85	6·78	39·16
,,	Peebles	Eddlestone (Portmore) ...	1·40	·60	4·50	1·70	1·57	·70	3·55	6·85	7·70	2·92	3·08	5·53	40·10

SCOTLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct	Nov.	Dec.	Total.
XIII.	Berwick	Marchmont House	1·96	·21	4·95	1·40	2·40	·71	2·50	6·36	6·64	1·80	2·82	4·61	36·36
,,	Haddington	North Berwick Reservoir	·70	·10	3·50	1·00	1·50	·30	2·45	4·25	3·25	2·36	2·65	3·70	25·76
,,	Edinburgh	Edinburgh (Blacket Place)	·73	·21	3·01	·29	1·91	·57	3·69	5·21	4·71	2·03	1·69	5·16	29·21
,,	Linlithgow	Uphall	1·44	·26	1·56	·46	1·48	·66	2·04	5·12	4·72	2·24	1·99	5·67	27·64
XIV.	Lanark	Biggar (Cambus Wallace)	2·00	·42	2·45	·54	1·55	1·60	2·40	6·13	5·24	3·33	2·42	6·32	34·40
,,	,,	Hamilton (Ardenclutha)	2·47	·31	3·26	·45	1·51	2·20	1·30	4·96	4·82	2·86	3·48	7·27	34·89
,,	Ayr	Colmonell	3·04	·39	3·06	2·61	2·09	·99	1·62	6·72	4·41	8·98	5·76	6·56	46·23
,,	,,	Ayr (Auchinlee)	2·40	·31	2·10	·56	1·35	·53	1·02	5·98	4·58	3·32	3·51	5·86	31·52
,,	,,	Old Cumnock	2·96	·37	4·91	1·41	1·94	·86	1·03	6·39	5·65	5·41	4·55	7·31	42·79
XV.	Dumbarton	Arrochar	4·93	4·52	6·18	2·55	2·05	2·35	5·15	7·20	10·33	12·87	7·74	11·96	77·83
,,	Stirling	Killearn	4·79	1·06	5·01	2·54	2·42	1·82	2·03	5·25	7·80	7·19	6·55	10·76	57·22
,,	Bute	Arran (Pladda)	1·96	·27	3·60	1·46	1·45	1·15	·94	3·57	4·49	2·94	3·04	5·41	30·28
,,	Argyll	Holy Loch (Rosmor)	8·71	2·00	5·83	2·05	3·08	2·68	1·92	8·49	11·45	9·49	7·88	13·67	77·25
,,	,,	Lochgilphead (Kilmory)	5·58	1·43	4·94	1·50	1·89	2·00	1·57	6·72	7·51	10·73	5·29	9·44	58 60
,,	,,	Appin (Airds)	5·41	4·91	3·05	·65	2·38	1·68	3·30	6·45	8·65	6·74	4·68	8·55	56·45
,,	,,	Strontian (Laudale)	8·20	2·64	6·64	1·80	1·82	2·14	3·21	7·90	9·86	11·61	5·53	12·48	73·83
,,	,,	Cantire (Devaar)	1·90	·53	4·30	1·42	2·63	1·66	1·80	5·70	4·46	5·71	5·93	7·23	43·27
,,	,,	Islay (Eallabus)	3·90	·99	3·87	1·66	2·01	1·41	1·67	5·69	4·60	6·11	5·22	7·21	44·34
,,	,,	Jura (Bay of Small Isles)	5·00	1·20	6·20	1·80	2·40	1·80	1·30	7·30	6·50	6·10	6·20	9·00	54·80
,,	,,	,, (Ardfin)	4·31	·78	4·95	1·00	2·55	1·90	1·66	7·67	6·64	6·77	6·03	8·71	52·97
XVI.	Clackmannan	Dollar	2·27	·70	3·13	1·19	2·08	·61	2·72	4·97	6·41	3·03	3·13	6·59	36·83
,,	Fife	Kilconquhar (Balcarres)	1·00	·20	3·75	1·02	2·85	·54	4·10	5·05	5·47	2·02	2·92	4·80	33·72
,,	,,	Strathmiglo(LodenUrquht)	2·06	·27	2·69	1·88	2·33	·62	2·86	5·56	3·71	3·69	3·70	6·29	35·66
,,	Perth	Stronvar	6·64	2·01	5·86	2·91	2·65	2·58	2·86	8·08	9·07	12·89	7·51	13·04	76·10
,,	,,	Dunkeld (Inver Braan)	2·39	·32	2·65	2·26	2·41	·67	3·08	6 57	2·81	6·46	4·58	5·61	39·81
,,	,,	Dalnaspidal H.R.S.	6·48	1·79	5·18	2·44	3·81	1·74	4·19	5·32	7·85	7·69	5·99	10·18	62·66
,,	Forfar	Dundee (Broughty Ferry)	·65	·07	2·61	1·04	2·08	·82	3·11	4·53	4·55	2·61	2·82	3·56	28·45
,,	,,	Kirriemuir (Lintrathen)	2·16	·33	2·28	1·86	2·16	·36	3·58	4·23	3·04	4·72	4·43	3·50	32·65
XVII.	Kincardine	The Burn	1·60	·30	1·80	1·10	1·00	·50	3·40	5·10	7·70	3·40	4·90	2·90	33·70
,,	Aberdeen	Coldstone Manse	1·11	·22	1·98	1·23	2·71	·45	4·47	4·57	4·35	2·34	3·31	1·60	28·34
,,	,,	Haddo House	1·31	·43	3·42	·67	2·68	·68	2·73	4·56	5·58	2·47	3·48	1·73	29·74
,,	,,	Old Deer	1·16	·53	3·62	·48	2·52	·33	2·56	5·10	4·53	2·15	3·12	2·25	28·35
,,	Moray	Grantown	1·61	·93	2·88	·94	4·14	1·80	5·32	4·87	2·16	1·27	1·38	2·78	30·08
,,	,,	Gordon Castle	1·91	1·62	2·63	·26	3·74	·70	7·34	4·98	2·26	1·15	2·31	2·11	31·01
,,	,,	Elgin	1·41	1·95	2·46	·42	3·12	·86	6·67	3·81	2·57	·74	1·68	1·89	27·58

SCOTLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XVIII.	Ross	Applecross.....	4·99	2·81	3·88	1·32	3·40	2·72	5·64	5·51	6·28	7·52	5·95	7·44	57·46
,,	,, ...	Strathconan	5·10	3·09	6·20	·94	3·88	·94	2·87	2·68	3·54	3·42	3·92	5·48	42·06
,,	,, ...	Braemore House	4·80	4·31	5·81	2·27	4·50	1·94	7·11	4·80	4·40	6·20	6·52	7·45	60·11
,,	,, ...	Ardross Castle	1·79	3·48	3·32	1·00	2·88	1·32	4·53	3·72	2·76	1·60	3·24	3·24	32·88
,,	Inverness	Fort William	7·89	7·42	4·37	1·41	2·20	3·27	3·68	8·37	12·90	9·42	6·01	11·80	78·74
,,	,, ...	N. Uist (Loch Maddy) ...	5·66	3·66	2·46	·45	2·19	2·97	1·82	3·78	7·15	11·72	7·71	11·55	61·12
,,	,, ...	Invergarry	8·24	5·58	2·23	1·26	1·12	1·34	3·56	6·55	8·76	5·20	4·55	11·77	60·16
,,	,, ...	Aviemore H.R.S.	2·12	1·05	3·29	·80	2·90	·47	3·72	3·92	2·78	1·51	1·09	3·91	27·56
,,	,, ...	Cawdor [Nairn]	1·87	1·77	2·41	·56	3·44	·87	7·11	3·13	1·98	1·05	1·24	2·89	28·32
XIX.	Sutherland	Invershin	1·68	2·47	3·07	1·85	3·08	2·07	5·85	4·96	3·40	·74	3·58	2·07	34·82
,,	,, ...	Dunrobin Castle	2·11	2·88	4·02	·54	2·22	1·68	3·97	3·85	1·92	·77	2·67	3·32	29·95
,,	,, ...	Scourie	4·76	3·51	3·43	·61	3·62	1·80	4·68	5·63	4·73	4·63	3·24	5·77	46·41
,,	Caithness	Wick H.R.S.	1·24	2·22	3·09	1·03	2·17	1·27	3·43	4·53	2·47	2·43	2·70	3·68	30·26
,,	Shetland	Sumburghead(Dunroseness)	3·22	2·30	2·98	1·07	2·18	1·12	5·76	5·25	3·87	2·23	3·89	4·05	37·92
							IRELAND.								
XX.	Cork	Dunmanway (Coolkelure) .	3·96	·80	2·59	3·75	3·88	4·64	2·13	8·90	6·47	8·84	5·62	12·69	64·27
,,	,, ...	Cork (Clarence Place)	2·27	·50	1·32	2·54	2·65	3·43	1·57	4·30	3·24	6·80	4·46	6·16	39·24
,,	,, ...	Darrynane Abbey.....	3·37	·94	2·51	3·28	3·39	3·89	2·81	5·52	4·78	7·85	4·57	7·32	50·23
,,	Kerry.....	Kenmare (Derreen)	4·15	·49	2·57	5·89	5·08	5·61	2·57	6·78	6·21	13·19	6·51	13·95	73·00
,,	,, ...	Dromore Castle.....	4·59	·90	2·90	2·47	5·60	2·91	2·19	6·24	2·39	7·73	4·84	6·63	49·39
,,	Waterford	Waterford (Brook Lodge).	1·87	·33	1·42	2·35	3·79	2·40	3·13	7·10	3·01	5·47	5·51	6·38	42·76
,,	Tipperary	Tipperary (Henry Street)	2·59	·30	2·28	1·40	3·43	2·71	2·10	5·94	3·10	4·59	3·55	5·22	37·21
,,	,, ...	Nenagh (Castle Lough) ...	2·35	·24	2·00	2·10	2·46	2·76	1·42	7·14	2·84	4·87	2·92	8·31	39·41
,,	,, ...	Ballingarry (Hazelfort) ...	1·55	·16	1·38	1·66	2·49	2·35	3·47	6·56	2·45	3·50	2·33	5·58	33·48
,,	,, ...	Newcastle West	2·71	·18	2·71	1·45	2·68	1·88	1·90	7·20	2·86	3·90	2·48	7·09	37·04
,,	Limerick	Jane Ville	3·15	·38	2·25	2·32	2·21	4·04	2·46	5·62	2·71	6·99	4·32	7·32	43·77
,,	Clare	Ennis.....	2·52	·22	1·99	2·38	2·23	2·58	·77	7·82	2·98	4·02	2·73	6·96	37·20
,,	,, ...	Miltown Malbay	1·94	·53	1·72	1·64	1·62	3·09	1·19	9·36	3·76	6·19	3·59	7·64	42·27
XXI.	Wexford	Ballyhyland	2·72	·32	1·31	2·87	3·99	4·14	2·62	6·87	3·47	6·45	6·17	6·76	47·69
,,	,, ...	Gorey (Courtown).....	1·54	·24	1·05	1·89	3·08	2·88	1·87	5·57	3·10	6·24	5·08	6·30	38·84
,,	Kilkenny	Rosbercon Castle	1·48	·50	·78	1·61	3·34	3·27	2·35	6·43	2·20	5·61	4·28	5·11	36·96
,,	,, ...	Kilkenny (Lavistown)	1·66	·28	·94	1·75	2·94	3·02	2·21	5·37	1·97	3·87	2·57	5·24	31·82
,,	Wicklow	Bray (Fassaroe)	1·68	·18	2·10	3·43	4·04	3·61	2·21	5·14	2·41	7·24	6·39	7·19	45·62
,,	Carlow	Browne's Hill	1·66	·28	1·11	1·62	3·49	2·59	2·53	5·54	2·23	4·71	3·63	5·44	34·83

IRELAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XXI.	Queen's County...	Abbey Leix (Blandsfort)...	1·70	·28	1·22	1·56	3·06	2·32	2·00	6·51	2·08	4·65	3·11	5·79	34·28
,,	Kildare	Straffan House.....	1·15	·17	1·50	1·59	2·50	1·94	2·13	6·96	2·85	2·97	3·04	4·31	31·11
,,	Dublin	Glasnevin(BotanicGardens)	·83	·03	1·33	1·70	2·98	2·91	2·85	5·42	2·74	3·52	2·86	3·59	30·76
,,	Meath	Athboy	1·07	·18	1·33	2·37	2·73	2·34	·99	5·96	2·12	3·53	3·44	5·38	31·44
,,	,, ...	Moynalty (Westland)	1·22	·30	1·35	3·19	3·10	2·77	1·64	7·67	2·39	3·98	3·04	6·10	36·75
,,	Westmeath	Mullingar (Belvedere).....	1·16	·29	1·02	2·72	3·04	2·20	1·02	7·69	2·68	3·93	2·69	5·89	34·33
,,	,, ...	Athlone (Twyford)	1·58	·25	1·57	3·32	2·87	2·41	1·38	7·67	3·26	3·91	2·47	5·71	36·40
,,	Louth	Ardee (Lissrenny).....	1·10	·25	·92	2·74	3·14	3·29	1·45	5·59	1·80	3·85	2·68	5·13	31·94
,,	,, ...	Greenore	1·06	·17	·82	3·59	2·48	3·00	1·45	7·07	1·58	3·25	3·39	5·66	33·52
,,	Longford	Edgeworthstown	1·52	·22	1·11	3·64	2·71	2·10	1·96	7·43	2·70	3·49	2·27	5·32	34·47
XXII.	Galway	Ballinasloe	1·85	·24	1·51	2·61	2·49	2·34	1·34	6·82	2·97	4·47	2·23	6·95	35·82
,,	,, ...	Kylemore	6·55	1·12	4·79	3·64	5·94	4·27	4·23	14·41	8·31	15·55	7·82	10·49	87·12
,,	,, ...	Tuam.....	2·32	·28	2·22	2·10	1·76	1·93	1·60	8·81	3·95	7·14	2·76	7·79	42·66
,,	Roscommon	Donarnon (Castlecoote) ...	2·02	·25	1·72	3·25	3·19	2·05	1·84	8·98	3·22	4·04	2·42	6·43	39·41
,,	Mayo	Ballinrobe (Cranmore) ...	2·93	·59	2·19	2·02	2·37	2·36	2·26	7·63	4·80	9·64	3·36	7·00	47·15
,,	,, ...	Crossmolina (Enniscoe) ...	3·56	·25	3·26	2·05	3·48	2·76	2·33	6·54	5·46	9·44	3·80	7·21	50·14
,,	Sligo	Sligo (Mount Shannon) ...	2·18	·21	2·35	2·00	3·23	1·90	3·02	7·21	2·90	5·02	2·43	4·27	36·72
,,	Leitrim	Ballinamore (Lauderdale)..	1·93	·55	1·88	3·43	2·57	2·44	1·42	7·11	3·18	4·27	2·74	6·03	37·55
XXIII	Cavan	Belturbet (Red Hills)	1·11	·20	1·79	2·72	2·64	2·53	1·82	7·74	2·79	3·56	2·17	5·89	34·96
,,	Fermanagh	Enniskillen (Florence Crt.)	2·15	·97	1·85	2·56	2·77	1·59	1·48	6·78	4·50	5·83	4·05	7·06	41·59
,,	Armagh.....	Edward St. [Newry]	1·85	·30	1·53	4·10	2·50	2·35	2·12	6·64	2·77	4·90	5·45	6·35	40·86
,,	,, ...	Armagh.....	1·32	·19	1·56	1·84	2·62	2·36	1·86	4·75	1·70	3·42	2·44	4·69	28·75
,,	Down.....	Newcastle (Fairleigh)	2·26	·24	2·25	5·81	3·44	4·45	1·87	8·26	4·74	6·78	6·79	8·66	55·55
,,	,, ...	Donaghadee	·97	·13	1·63	2·15	2·43	1·04	2·07	5·33	2·29	4·70	3·91	3·96	30·61
,,	Antrim	New Barnsley	1·72	·17	2·32	2·79	3·92	2·50	2·40	5·86	3·16	4·38	3·27	5·45	37·94
,,	,, ...	Ballymena.....	2·28	·46	2·97	2·47	3·39	1·30	3·04	6·10	3·13	4·71	3·43	4·33	37·61
,	,, ...	Bushmills (Dundarave) ...	2·24	·29	3·50	·82	2·79	·83	3·58	5·75	2·56	3·89	3·88	3·49	33·62
	Londonderry.....	Newtown Limavady	2·15	·14	3·85	·97	2·58	1·36	3·14	4·88	2·57	3·66	2·67	3·45	31·42
,,	Tyrone	Stewartstown (Ardtrea) ...	1·98	·39	1·93	3·01	3·03	3·54	1·89	5·60	2·78	3·62	2·46	4·97	35·20
,,	,, ...	Omagh (Edenfel)	2·00	·68	2·35	2·42	3·22	1·82	4·29	7·45	4·04	4·61	2·66	5·62	41·16
,,	Donegal.....	Castlefinn (Finn Lodge) ...	2·23	·20	3·14	·98	2·02	1·89	2·73	6·22	3·65	3·47	2·91	4·42	33·86
,,	,, ...	Malin Head	1·61	·30	1·75	·69	2·05	1·08	1·75	4·32	3·16	3·06	2·83	3·71	26·31

JANUARY.

A month of average rain, or rather snow, fall. Very slight excess in the south of England, and equally slight deficiency in the north, and in Scotland. In Ireland there was a marked deficiency, some stations having little more than half their average.

FEBRUARY.

Owing to the exceptional character of the rainfall of this month, a special article upon it has been prepared, and is given *ante* p. 19.

MARCH.

Another dry month in Ireland, and at stations in Wales and England near to the Irish Channel. Excesses prevailed in the extreme N. and S. of Scotland, and at some stations in the S.W. of England. Slight deficiency elsewhere. The March records for the S.W. of England have in some cases had to be corrected on account of inadequate records of the fall of snow in the great blizzard of March 9th-10th, in all such cases the yearly totals as given in the general tables are printed in italics. It would be a great advantage if a dozen or two of Mr. Sidebottom's snow gauges * were erected at widely scattered stations so that our knowledge of the real fall in such exceptional storms might be increased.

APRIL.

The third consecutive dry month. No excesses of any importance, and none at all except at a few stations in and near Wales, and in the N. of Ireland.

MAY.

A wet month, except in the N.W. of England and throughout Scotland, where the fall, especially on the west coast, was much below the average. At some stations in the west of England the fall was double the average.

JUNE.

The distribution of rain was irregular (owing to thunderstorms), but there were no very exceptional amounts either in excess or defect.

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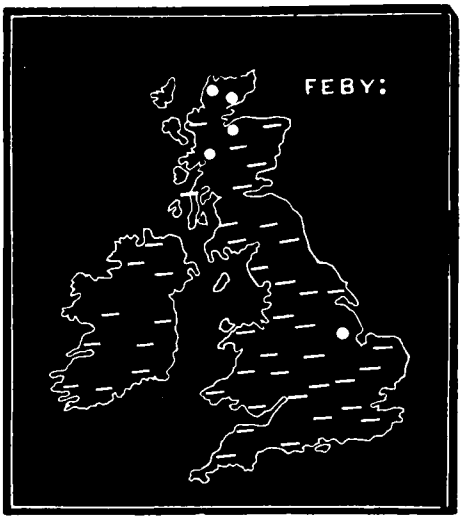
* See "British Rainfall, 1888," p. 28.

MAPS OF MONTHLY RAINFALL IN 1891.

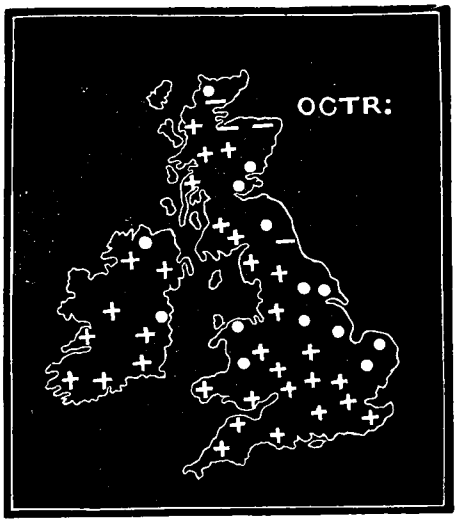


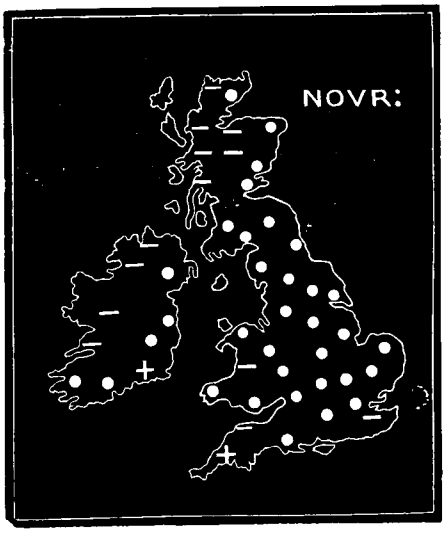
• Within an inch of average.

\+ More than 1 in. above average.

— ,, ,, ,, below ,,

MAPS OF MONTHLY RAINFALL IN 1891.





• Within an inch of average.

\+ More than 1 in. above average.
— ,, ,, ,, below ,,

JULY.

The rainfall generally was near the average; there were slight excesses in the S.E. of England, in Yorkshire, and in the N. of Scotland; in most other places there was a deficiency, and along the west coast of England, Wales, and Scotland the fall was at many places less than half the average, and at some not one-third of it.

AUGUST.

An exceptionally wet month. We are not aware that any station had less than the average. On the contrary most stations had double the average; some had three times, and a few had even more than three times the average. The subject was dealt with very fully in the *Meteorological Magazine* for September (pp. 116-123) and it seems necessary only to supplement it by saying that speaking generally the total in Wiltshire and Devon seems to have been higher than even in the wet August of 1879, and that at some stations it was not merely the wettest August, but the wettest month, on record. In Lancashire and in the Lake District, the fall was excessive, and in many cases without precedent even in records extending back for a quarter of a century. At forty-two stations the fall exceeded 15 inches, and at the following, all near the centre of the Lake District, it *exceeded twenty inches.*

	Inches.
Sprinkling Tarn	23·10
Borrowdale, Seathwaite (4 in.)	26·55
,, ,, (Daily)	26·99
,, ,, (RoyalMet.Soc.)	26·69
,, ,, (Marshall)	25·11
Ullscarf	23·00
Wythburn Vicarage	21·50
Borrowdale Vicarage	22·25
Hassness	23·38
Fell Foot	21·80
Dungeon Ghyll	21·88
,, ,, M	22·00
Ruthwaite	21·32
Mickleden	22·80

SEPTEMBER.

A dry month over the whole of England, except the Lake District. Rainfall near the average in Ireland, above it in Wales and in Scotland. In the English Lake District most stations had between 10 and 15 inches of rain, some over 20 inches; in Scotland also there were several stations which had more than 10 inches.

OCTOBER.

A wet month in most places, the exceptions being on the east coast of Scotland, and on the N.E. coast of England. Over much of

England and the west of Scotland, the rainfall was nearly, or more than, double the average for this usually wet month. Falls exceeding 10 inches were again numerous and occurred in the following counties; in some of which there is probably no previous record of so large a fall.

ENGLAND.

Kent	Wilts	Cornwall	Lancashire
Sussex	Dorset	Somerset	Cumberland
Hampshire	Devon	Gloucester	Westmoreland
Buckinghamshire			

MONMOUTH AND WALES.

Monmouth	Pembroke	Radnor	Merioneth
Glamorgan	Cardigan	Montgomery	Carnarvon
Caermarthen	Brecknock		

SCOTLAND.

Kirkcudbright	Ayr	Stirling	Perth
Dumfries	Dumbarton	Argyll	Inverness

IRELAND.

Kerry	Galway	Down

NOVEMBER.

The rainfall of this month was near, if anything rather below, the average, almost everywhere.

DECEMBER.

A wet month everywhere except in the extreme N.E. of Scotland. More than 100 stations had falls exceeding 10 inches, and about two dozen had more than 20 inches; in fact, at some stations it was wetter than August.

SEASONAL.

Our correspondents in their notes upon the year on pages [82] to [116] have dealt so fully with the irregular distribution of rain during 1891, that it is unnecessary for us to do so. Subject to small local exceptions the facts seem to be that up to, and partly including, July, the rainfall was unusually small, and in the last five months it was exceptionally heavy. Take for instance the wet station at Seathwaite, of which the monthly totals are given on p. [139] we have:—

		Average per month.
	in.	in.
Seven months, Jan. to July =	44·28	.. .. 6·33
Five ,, Aug. ,, Dec. ,,	102·91	..... 20·58
Six ,, Jan. ,, June ,,	38·46	..... 6·41
,, ,, July ,, Dec. ,,	108·73	..... 18·12

So that the last five months had about $2\frac{1}{2}$ times as much as the first seven months; and the second six months had nearly three times as much as the first six months.

ON THE RELATION OF THE TOTAL FALL OF RAIN IN 1891 TO THE AVERAGE.

MANY persons would think that a year, one month of which was dry beyond all precedent would probably be a dry one, but that was not the case with 1891 ; the early deficiency was more than made up in the autumn, and so finally 1891 must be classed as a year of more than average rainfall.

But we must go into details—and may as well begin with the map. This shows for 179 stations as equally distributed over the country as possible, what has been the relation of the fall in 1891 to the average during the ten years 1880—89. The most prevalent symbol is the round dot which indicates an average fall, *i.e.*, strictly, one within 10 per cent. above or below the average. Of these we have 118 out of 179, or considerably more than half. Of the — signs indicating a fall from 10 to 25 per cent. below the average, *i.e.*, an ordinarily dry year, there are only five: 1 in England (Whitby), 1 in Scotland (Strathconan, Rossshire), and 3 in the N.E. of Ireland.

The symbol +, indicative of an ordinarily wet year, occurs 47 times, or at about one-fourth of the stations, and these stations are chiefly in the West of England, in Wales and in the portions of Ireland and Scotland adjacent to the Irish sea. The indication of great excess, a plus within a ring, indicating that the fall was more than a quarter in excess of the average yearly total, is attached to nine stations, extending from Devonshire to Ely. The greatest excess was 36 per cent. and this was reached at Alresford (Hampshire), Great Marlow (Bucks) and Torquay (Devon).

It has been shown in *British Rainfall*, 1883, p. 31, that in a very long series of years the wettest will probably be 45 per cent. in excess of the mean, these cases of 36 per cent. therefore approach the maximum which theoretically should fall at these stations. We will therefore examine each and state the result :—

Ovington, Alresford, Hants	Fall in 1891	greatest	observed	in	15	years.
Great Marlow, Buckingham	,,	,,	,,	,,	14	,,
Babbacombe, Torquay, Devon	,,	,,	,,	,,	14	,,

The details as to departure from the average can be readily followed by referring to the tables upon pages [149] to [152] upon which, indeed, the map is largely based.

Compared with the totals of 1890, those of 1891 show, of course, a general excess. In Ireland the differences are generally small, and show no marked features. In Scotland they are larger, and (except in the Southern counties), generally show an excess of 1891, ranging from nothing, along a line from Ayr to Edinburgh, to excesses of 10 to 15 inches in the extreme N.W. As regards England, 1891 was generally, and considerably, in excess. There were two small exceptions, and one very remarkable and large one. A small tract round the mouth of the Thames had an inch or two less in 1891 than in 1890, and similar but more marked conditions prevailed along the coast of Durham and Northumberland from the Tees to the Tweed—and also on the opposite side of the country in North Lancashire and West Cumberland, while between them in most of the Lake District (except the west of the Scafell group) there was a great excess, amounting in several cases to over 20, and in one instance (Patterdale Hall), to over 30 inches. Very large excesses occurred also in some of the South Midland counties and in the north of Glamorganshire.

If we turn from individual stations to whole countries we shall find a general accordance. The following is our usual summary :—

ABSTRACT.

COUNTRIES.	No. of Records.	Mean 1880-9.	1891.	Diff. from Average. 1880-89. Amount.	Per cent.
		in.	in.	in	
England and Wales...	96	33·82	37·36	3·54 +	10
Scotland.....	48	42·39	43·59	1 20 +	3
Ireland	39	39·52	39·35	0·17 —	0
Mean of all Stations...	183	37·28	39·41	2·13 +	6

This shows that on the whole the total for the year was not remarkable, the excess averaging less than ten per cent. This is somewhat noteworthy, inasmuch as the excesses above 25 per cent., of which as already mentioned there are nine shown upon the map, are more numerous than in any year since 1882.

DIFFERENCE OF TOTAL RAINFALL IN 1891 FROM THE AVERAGE OF 1880-89.

The round dot indicates a rainfall within 10 per cent. of the average.
The + and — respectively show excess or defect of between 10 and 25 per cent.
The same signs enclosed by a ring indicate a departure from the average of more than 25 per cent.

COMPARISON OF THE RAINFALL OF THE YEAR 1891, WITH THE AVERAGE OF THE YEARS 1880-89.

ENGLAND & WALES.

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1891.	Difference from average, 1880-9. Amount.	Per cent.
			in.	in.	in.	
I.	Middlesex	London (Camden Square)	25·45	28·15	2·70	+ 11
II.	Surrey	Dorking (Abinger Hall)	30·60	36·54	5·94	+ 19
,,	Kent	Tenterden (*Snowdon*)	28·11	30·67	2·56	+ 9
,,	,,	Maidstone (Hunton Court)	24·59	26·45	1·86	+ 8
,,	,,	Margate (Renfrew Villa)	23·95	24·11	·16	+ 1
,,	Sussex, West	Chichester (Chilgrove)	32·83	41·59	8·76	+ 27
,,	,, East	Lewes (Glynde Place)	31·14	36·78	5·64	+ 18
,,	Hampshire	Isle of Wight (Osborne)	27·29	36·06	8·77	+ 32
,,	,,	Christchurch (Mudeford)	27·01	32·07	5·06	+ 19
,,	,,	Alresford (Ovington)	31·02	42·05	11·03	+ 36
,,	Berkshire	Newbury (Welford Park) *n.g.*	30·27	37·93	7·66	+ 25
III.	Hertfordshire	Hertford (Bayfordbury)	25·04	28·20	3·16	+ 13
,,	Buckingham	Great Marlow	27·81	37·86	10·05	+ 36
,,	,,	Winslow (Addington Manor)	27·97	29·55	1·58	+ 6
,,	Oxfordshire	Oxford (Magdalen Coll.)	26·19	26·57	·38	+ 1
,,	Northampton	Kettering	27·18	31·82	4·64	+ 17
,,	Bedfordshire	Bedford (Western Street)	24·01	24·59	·58	+ 2
,,	Cambridgeshire	Ely (Stretham)	22·39	29·10	6·71	+ 30
,,	,,	Wisbech (Bank House)	25·27	25·36	·09	+ 0
IV.	Essex	Maldon (Norton Hall)	22·01	21·67	·34	− 2
,,	,,	Saffron Walden (Newport)	24·82	28·37	3·55	+ 14
,,	Suffolk	Rendlesham Hall	24·83	24·61	·22	− 1
,,	,,	Ixworth(Walsham-le-Willws.)	26·13	26·57	·44	+ 2
,,	Norfolk	Diss	25·81	25·43	·38	− 1
,,	,,	Swaffham (Grammar School)	28·41	27·37	1·04	− 4
,,	,,	Sprowston	26·11	25·99	·12	− 0
,,	,,	Hunstanton	23·93	26·40	2·47	+ 10
V.	Wilts	Salisbury Plain (Chitterne Ho.)	28·26	36·69	8·43	+ 30
,,	,,	Swindon (Pen Hill)	27·19	30·84	3·65	+ 13
,,	Dorset	Weymouth (Langton Herring)	29·36	37·59	8·23	+ 28
,,	Devon	Torquay (Babbacombe)	34·59	46·88	12·29	+ 36
,,	,,	Coryton (Lew Down)	46·29	56·87	10·58	+ 23
,,	,,	Bampton (Huntsham)	44·52	52·33	7·81	+ 18
,,	,,	Barnstaple (Arlington Court)	52·85	53·57	·72	+ 1
,,	Cornwall	Marazion	38·68	42·36	3·68	+ 10
,,	,,	St. Austell (Trevarna)	47·10	47·68	·58	+ 1
,,	Somerset	Glastonbury (Street)	31·16	32·80	1·64	+ 5
VI.	Gloucestershire	Clifton (South Parade)	35·32	42·52	7·20	+ 20
,,	,,	Stroud (Upfield)	30·91	35·96	5·05	+ 16
,,	Hereford	Ross (The Graig)	31·18	33·57	2·39	+ 8
,,	,,	Kington (Lynhales)	35·32	35·48	·16	+ 0

ENGLAND & WALES.—*Continued.*

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1891.	Difference from average, 1880-9. Amount.	Per cent.
			in.	in.	in.	
VI.	Shropshire	Bishop's Castle (Castle Street).	34·08	37·07	2·99	+ 9
,,	,,	Oswestry (Hengoed)	34·95	37·47	2·52	+ 7
,,	,,	Adderley Rectory	28·80	33·11	4·31	+ 15
,,	Stafford	Dennis [Stourbridge]	28·07	29·62	1·55	+ 6
,,	,,	Burton (Shobnall)	25·86	27·24	1·38	+ 5
,,	,,	Cheadle (The Heath House)	32·71	35·72	3·01	+ 9
,,	Worcester	Northwick Park	30·09	31·48	1·39	+ 5
,,	,,	Grt. Malvern (Church Street)	29·49	32·95	3·46	+ 12
,,	Warwick	Kineton (Fenny Compton)	27·53	25·97	1·56	— 6
,,	,,	Coventry (Priory Row)	28·94	29·70	·76	+ 3
VII.	Leicester	Thornton Reservoir	27·69	30·42	2·73	+ 10
,,	Rutland	Market Overton	28·54	29·34	·80	+ 3
,,	Lincoln	Stubton [Newark]	27·44	26·94	·50	— 2
,,	,,	Horncastle (Miningsby)	26·62	27·99	1·37	+ 5
,,	,,	Brigg	27·22	26·52	·70	— 3
,,	Nottingham	Worksop (Hodsock Priory)	25·84	26·70	·86	+ 3
,,	Derby	Matlock Bath	36·62	36·49	·13	— 0
,,	,,	Glossop (Spire Hollin)	41·60	46·34	4·74	+ 11
VIII.	Cheshire	Chester Nurseries	29·08	32·59	3·51	+ 12
,,	,,	Chelford (Astle Hall)	30·73	32·35	1·62	+ 5
,,	Lancashire	Ormskirk (Rufford)	31·86	36·63	4·77	+ 15
,,	,,	Over Darwen (St. James's Vic.)	46·56	53·62	7·06	+ 15
,,	,,	Blackpool (South Shore)	33·94	41·27	7·33	+ 22
,,	,,	Cartmel (Holker)	42·25	44·75	2·50	+ 6
IX.	York, W. Ridng.	Rastrick	30·72	33·84	3·12	+ 10
,,	,, ,,	Otterburn-in-Craven	41·19	44·48	3·29	+ 8
,,	,, ,,	Knaresborough (Farnham)	27·37	25·21	2·16	— 8
,,	,, E. Riding.	Pocklington (Warter)	30·46	29·17	1·29	— 4
,,	,, N. Riding.	Malton	26·90	24·53	2·37	— 9
,,	,, ,,	Leyburn	36·10	38·68	2·58	+ 7
,,	,, ,,	Whitby (Guisborough Road)	26·66	22·81	3·85	— 14
X.	Durham	Darlington (South End)	26·45	25·93	·52	— 2
,,	,,	Wolsingham	35·27	39·49	4·22	+ 12
,,	Northumberlnd	Haltwhistle (Unthank Hall)	35·97	32·83	3·14	— 9
,,	,,	Rothbury (Brinckburn)	30·86	29·97	·89	— 3
,,	,,	Pawston [Coldstream]	30·00	31·74	1·74	+ 6
,,	Cumberland	Borrodale (Seathwaite)	129·01	147·19	18·18	+ 14
,,	,,	Carlisle Cemetery	30·34	32·64	2·30	+ 8
,,	Westmoreland	Appleby	32·75	39·84	7·09	+ 22
XI.	Monmouth	Abergavenny (Larchfield)	38·65	44·82	6·17	+ 16
,,	Glamorgan	Cardiff Castle	39·55	43·79	4·24	+ 11
,,	,,	Neath	50·13	61·35	11·22	+ 22
,,	Carmarthen	Carmarthen (Jo. Co. Asylum)	48·68	59·34	10·66	+ 22
,,	Pembroke	Pembroke (Stackpole Court)	41·59	44·68	3·09	+ 7
,,	,,	Castle Malgwyn [Llechryd]	45·29	48·83	3·54	+ 8
,,	Brecknock	Brecknock (Cantreff)	51·27	61·36	10·09	+ 20
,,	Radnor	Rhayader (Nantgwillt)	62·80	69·53	6·73	+ 11
,,	Montgomery	Carno (Tybrith)	49·28	50·92	1·64	+ 3
,,	Denbigh	Colwyn (Nant-y-Glyn)	31·55	34·77	3·22	+ 10

ENGLAND & WALES.—*Continued.*

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1891.	Difference from average, 1880-9. Amount.	Per cent.
			in.	in.	in.	
XI.	Merioneth	Llanderfell (Palé)	47·47	57·00	9·53	+ 20
,,	Carnarvon	Llanystumdwy (Talarvor)	36·53	37·45	·92	+ 3
,,	Anglesea	LlanerchymeddLwdiarthEsgob	36·63	45·49	8·86	+ 24
,,	Isle of Man	Douglas (Victoria Road)	40·60	47·56	6·96	+ 17
,,	Scilly	St. Mary's	32·42	36·91	4·49	+ 14
,,	Jersey	St. Aubins (Noirmont)	34·75	35·62	·87	+ 3
		SCOTLAND.				
XII.	Kirkcudbright	Dalbeattie (Colvend Manse)	36·08	40·09	4·01	+ 11
,,	,,	Gatehouse Cally	49·15	50·06	·91	+ 2
,,	,,	Cargen [Dumfries]	39·74	47·66	7·92	+ 20
,,	Dumfries	Durrisdeer (Drumlanrig Cas.)	42·00	?41·70	·30	— 1
,,	,,	Moffat (Ericstane)	52·63	56·65	4·02	+ 8
,,	Roxburgh	New Castleton (The Flatt)	43·90	51·10	7·20	+ 16
,,	,,	St. Boswells (Elliston)	28·73	30·55	1·82	+ 6
XIII.	Peebles	Eddlestone (Portmore Res.)	37·19	40·10	2·91	+ 8
,,	Berwick	Marchmont House	34·01	36·36	2·35	+ 7
,,	Haddington	Haddington Asylum	26·24	28·32	2·08	+ 8
,,	Edinburgh	Pentland Hills (Glencorse)	39·21	43·91	4·70	+ 12
XIV.	Lanark	Biggar (Cambus Wallace)	29·98	34·40	4·42	+ 15
,,	,,	Airdrie (Hill End Res.)	35·80	36·54	·74	+ 2
,,	Ayr	Ballantrae (Glendrishaig)	40·64	42·65	2·01	+ 5
,,	,,	Ayr (Auchinlee)	32·52	31·52	1·00	— 3
,,	,,	Ardrossan (Kirkhall)	34·92	33·30	1·62	— 5
,,	Renfrew	Gorbals W.W. (Waulk Glen)	43·32	51·05	7·73	+ 18
XV.	Dumbarton	Helensburgh (Lyleston)	45·14	44·10	1·04	— 2
,,	,,	Arrochar	74·10	77·83	3·73	+ 5
,,	Bute	Rothesay (Barone Cottage)	46·04	43·17	2·87	— 6
,,	Argyll	Lochgilphead (Kilmory)	58·49	58·60	·11	+ 0
,,	,,	Appin (Airds)	53·62	56·45	2·83	+ 5
,,	,,	Strontian (Laudale)	78·71	73·83	4·88	— 6
,,	,,	Islay (Eallabus)	47·65	44·34	3·31	— 7
,,	,,	Mull (Quinish)	57·28	58·52	1·24	+ 2
XVI.	Kinross	Kinross (Turfhills)	39·48	41·66	2·18	+ 6
,,	Perth	Bridge of Turk	66·09	65·50	·59	— 1
,,	,,	Dalnaspidal	57·61	62·66	5·05	+ 9
,,	Forfar	Broughty Ferry (Douglas Ho.)	27·27	28·45	1·18	+ 4
XVII.	Kincardine	Fettercairn	32·72	30·59	2·13	— 7
,,	Aberdeen	Braemar	35·57	34·37	1·20	— 3
,,	,,	Cromar (Logie Coldstn. Manse)	28·62	28·34	·28	— 1
,,	,,	Aberdeen (Rose Street)	27·76	26·08	1·68	— 6
,,	,,	Old Deer	30·57	28·35	2·22	— 7
,,	Banff	Keith	29·98	30·32	·34	+ 1
,,	Elgin	Grantown	28·65	30·08	1·43	+ 5
,,	Nairn	Nairn (School House)	22·61	22·49	·12	— 1
XVIII.	Ross, West	Strome Ferry	60·85	60·81	·04	— 0
,,	,,	Strathconan [Beauly]	49·76	42·06	7·70	— 15
,,	,,	Braemore House	57·94	60·11	2·17	+ 4
,,	Ross, East	Alness (Ardross Castle)	35·31	32·88	2·43	— 7

SCOTLAND—*Continued.*

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1891.	Difference from average, 1880-9. Amount.	Per cent.
			in.	in.	in.	
XVIII.	Inverness, West	Glenquoich	102·64	109·34	6·70	+ 7
XIX.	Sutherland	Golspie	30·47	29·56	·91	— 3
,,	,,	Lairg	32·82	38·41	5·59	+ 17
,,	,,	Scourie	40·58	46·41	5·83	+ 14
,,	Caithness	Watten	27·01	26·68	·33	— 1
,,	Orkney	S. Ronaldshay (Roeberry)	31·61	31·47	·14	— 0
,,	,,	Shapinsay (Balfour Castle)	31·83	32·80	·97	+ 3
		IRELAND.				
XX.	Kerry	Kenmare (Derreen)	67·99	73·00	5·01	+ 7
,,	,,	Valentia (Telegraph Station)	55·86	58·37	2·51	+ 4
,,	Waterford	Waterford (Brook Lodge)	38·31	42·76	4·45	+ 12
,,	,,	Glenam [Clonmel]	42·15	41·15	1·00	— 2
,,	Tipperary	Tipperary (Henry Street)	37·78	37·21	·57	— 2
,,	,,	Derry Castle [Killaloe]	46·33	46·34	·01	+ 0
,,	Limerick	Limerick (Kilcornan)	30·76	31·46	·70	+ 2
,,	Clare	Ennis	39·20	37·20	2·00	— 5
,,	,,	Miltown Malbay	44·12	42·27	1·85	— 4
XXI.	Wexford	Enniscorthy (Ballyhyland)	42·80	47·69	4·89	+ 11
,,	,,	Gorey (Courtown House)	35·39	38·84	3·45	+ 10
,,	Kilkenny	Inistiogue (Woodstock)	41·67	40·23	1·44	— 3
,,	Wicklow	Bray (Fassaroe)	43·28	45·62	2·34	+ 5
,,	Carlow	Carlow (Browne's Hill)	33·59	34·83	1·24	+ 4
,,	King's Co.	Parsonstown (Birr Castle)	32·22	31·78	·44	— 1
,,	Dublin	Dublin (FitzWilliam Square)	27·47	27·82	·35	+ 1
,,	West Meath	Athlone (Twyford)	38·97	36·40	2·57	— 7
,,	,,	Mullingar (Belvedere)	34·69	34·33	·36	— 1
,,	Louth	Dundalk (Farndreg)	29·30	32·52	3·22	+ 11
,,	Longford	Edgeworthstown (Currygrane)	35·43	34·47	·96	— 3
XXII.	Galway	Ahascragh (Clonbrock)	39·91	38·79	1·12	— 3
,,	,,	Tuam Gardenfield ..... 1 ft.	44·28	42·66	1·62	— 4
,,	Mayo	Crossmolina (Enniscoe)	51·41	50·14	1·27	— 2
,,	Sligo	Sligo (Mount Shannon)	40·52	36·72	3·80	— 9
XXIII.	Fermanagh	Brookboro' (Colebrook Park)	41·02	40·53	·49	— 1
,,	Armagh	Armagh Observatory	32·16	28·75	3·41	— 11
,,	Down	Warrenpoint (Summer Hill)	37·88	29·46	8·42	— 22
,,	,,	Seaforde	37·89	38·67	·78	+ 2
,,	,,	Banbridge (Milltown)	31·44	31·17	·27	— 1
,,	,,	Sydenham (Alma House)	38·21	40·33	2·12	+ 6
,,	Antrim	Belfast (Antrim Road)	34·57	35·45	·88	+ 3
,,	,,	Ballymena (Harryville)	39·41	37·61	1·80	— 5
,,	,,	Bushmills (Dundarave)	37·87	33·62	4·25	— 11
,,	Londonderry	Garvagh (Moneydig)	39·02	36·83	2·19	— 6
,,	,,	Londonderry (Creggan Res.)	40·78	37·26	3·52	— 9
,,	,,	Bellarena	39·18	36·66	2·52	— 6
,,	Tyrone	Stewartstown (The Square)	34·90	35·28	·38	+ 1
,,	,,	Omagh (Edenfel)	36·63	41·16	4·53	+ 12
,,	Donegal	Raphoe (Convoy House)	46·94	49·38	2·44	+ 5

EXTREMES OF RAINFALL IN 1891.

Largest Rainfall, at Ben Nevis Observatory, West Inverness... 177·98 in.
Least Rainfall, at Patrington, Spurn Head, E.R. York..... 18·28 ,,

ENGLAND.

Greatest.			Least.		
Div.		in.	Div.		in.
X.	The Stye	166·40	IX.	Patrington (Spurn Head) ...	18·28
,,	Seathwaite..... ...	147·19	IV.	Southend (Water Works) ...	19·01
,,	Sprinkling Tarn	136·60	,,	Ilford (Great Gearies)	19·63
,,	Mickleden	129·45	II.	Rochester(Abbot'sCourt,Hoo)	19·96
,,	Grisedale (Ruthwaite Lodge)	126·55	IV.	Chelmsford (Writtle).....	20·06
,,	Ullscarf	125·40	,,	Great Bentley (The Lodge)...	20·31

MONMOUTH, WALES AND THE ISLANDS.

Greatest.			Least.		
Div.		in.	Div.		in.
XI.	Llanbedr-y-Cennin(Llyndulyn)	129·55	XI.	Rhyl (Sedgley House)	25·88
,,	Neath (Glyncorrwg)	108·16	,,	St. Asaph (Nantllys).....	28·75
,,	Treherbert	106·94	,,	Rhyl Vicarage	29·19
,,	Rhiwbryfdir (Oakley Quarries)	102·67	,,	Aberystwith	29·35
,,	CardiffW.W.(CwmTaffFawr,No.6)	100·71	,,	Trefnant (Maes Elwy)	29·51
,,	Blaenau Ffestiniog (Cefn-faes)	95·25	,,	Rosset (Trevalyn Hall).....	30·83

SCOTLAND.

Greatest.			Least.		
Div.		in.	Div.		in.
XVIII.	Ben Nevis Observatory	177·98	XVIII.	Fearn (Geanies Mains).....	19·69
,,	Glenquoich	109·34	XVII.	Forres, H.R.S.	20·58
,,	Loch Shiel (Glenaladale) ...	106·06	,,	Midmar (Blackstock)	20·85
XV.	Loch Eil (Conaglen)	103·06	XVIII.	Fearn (Lower Pitkerrie) ...	21·36
XVI.	Glen Gyle	94·40	XVII.	Nairn (Achareidh).....	21·99
XVIII.	Glencarron Lodge	90·23	,,	Forres (Grange Hall).....	22·40

IRELAND.

Greatest.			Least.		
Div.		in.	Div.		in.
XXII.	Clifden (Kylemore House) ...	87·12	XXI.	Dalkey (Belle Vue Park)...	23·83
XX.	Mangerton	86·90	,,	Killiney (Cloneevin)	25·28
XXII.	Clifden (Kylemore Castle) ...	73·73	XXIII.	Malin Head	26·31
XX.	Kenmare (Derreen)	73·00	XXI.	Dublin(Phœnix Park)	26.40
,,	Dunmanway (Coolkelure) ...	64·27	,,	Killiney (Eirine)	27·35
,,	Dingle	59·50	XXIII.	Banbridge (Katesbridge) ...	27·37

NOTE.

Second gauges, and those at Lighthouses, are excluded from the above, and in selecting the minima, no record is used from any gauge of which the receiving surface is more than 3 ft. above the ground.

GENERAL TABLES

OF

TOTAL RAINFALL IN 1891,

AT NEARLY

3000 STATIONS

IN THE

BRITISH ISLES.

EXPLANATION OF THE ARRANGEMENT OF THE FOLLOWING GENERAL TABLES.

The divisions are the same as those adopted by the Registrars General of England and Scotland, and the counties follow the same order as in the reports of those officers; but an alphabetical list of the counties is given, whereby the page or pages on which all returns from each county will be found, can be at once ascertained.

The stations in each county are arranged nearly in the order of their latitude from South to North.

To facilitate finding the localily of any gauge, the first name is almost always that of a place given in *Bradshaw*, the *Post Office Guide*, or the *Clergy Directory;* the second name is generally added to fix accurately the site of Observation; but, in a very few instances, when in [ ] instead of ( ), it is that of the nearest town in an adjoining county; *e.g.*, "Lowestoft (Carlton Colville)" means Carlton Colville, near Lowestoft, both in one county, but "Geldeston [Beccles]" means Geldeston, Norfolk, near Beccles, in another county —Suffolk.

The contents of the columns are sufficiently explained by the headings, except that in that headed "diameter," figures will be noticed of old-style type; these figures indicate the length of the sides of rectangular mouthed gauges. These measurements are all in inches.

The letter D denotes that a copy of the daily record has been received, that it is perfect throughout the year, and that the printed amount is the correct total of these daily entries. The letter M indicates a monthly record, *i.e.*, that the observation is made only on the first of each month.

This year a few entries of total rain will be found in italics—in these cases there is slight uncertainty either as to possible overflow, or as to the measurement of snow.

An asterisk * denotes that the gauge was tested before erection, and a † that it has been visited and examined since. A note of interrogation (?) implies doubt, not necessarily error. ... indicates the absence of information.

In the column of altitudes several symbols are used, their meaning is as follows:—Ⓣ, that a series of levels has been taken from the gauge to an Ordnance bench mark; T, that the height is estimated or ascertained approximately from the same source; L, that levels have been taken from the gauge to the sea, or to some datum other than Ordnance mean sea level; B, that the altitude has been taken by the barometer; and ?, that the height is uncertain

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ENGLAND AND WALES.

DIVISION I.—MIDDLESEX.

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
			ft. in.	feet.	inches.	
MIDDLESEX.						
Hampton (Southwark W. W.)...	J. W. Restler, Esq., C.E.	5	0 10	...	*24·55*	..
Sunbury (Hanworth Road)	W. B. Bryan, Esq., C.E.	8	1 0	50 ↑	27·85	173
Teddington (Gomer House)	R. D. Blackmore, Esq..	5	0 10	26 ↑	29·17	178
D Staines.....	J. Gundry, Esq.....	5	1 0	51 ↑	29·30	216
,, (Knowle Green).....	Miss Pellatt	5	5 2	...	28·04	151
Twickenham (Strawberry Hill)	T. Gale, Esq.	5	1 5	37 ↑	26·37	178
D ,, (Vale House)	L. Gordon Rylands, Esq	5	1 0	20	26·21	178
Chelsea (Pumping Station)	A. R. Binnie, Esq., C.E.	8	1 0	19 ↑	26·28	165
,, (St. Luke's Gardens) ...	TWE. Higgens, Esq. CE	5	1 0	25 ↑	26·24	177
Isle of Dogs	A. R. Binnie, Esq., C.E.	8	1 0	15 ↑	25·54	165
D Gunnersbury Station	E. Mann, Esq.	5	0 11	35	25·99	170
D Acton (Newburgh Road)	Miss Baker	5	1 0	86 ↑	27·49	163
Ealing (Public Buildings)	C. Jones, Esq., C.E. .	5	7 6	85	26·66	166
,, (St. Stephen's Road)	General Battersby.. ...	5	0 10	...	27·28	164
Westminster (Spring Gardens)..	A. R. Binnie, Esq., C.E.	8	6 0	35 ↑	26·67	...
D Kensington (Edith Road).....	G. von U. Searle, Esq.	5	0 10	13 ↑	26·67	190
D ,, (Holland House) ...	Mr. C. Dixon	5	4 6	68 ↑	27·60	175
D ,, (Addison Gardens)...	G. H. M. Whish, Esq..	5	1 1	23 ↑	27·70	179
,, (Campden Hill, W.)	M. W. Hervey, Esq., C.E.	8	4 10	130 ↑	29·26	179
London (Savile Row, W.)	G. S. Johnson, Esq. ...	5	...	...	26·75	172
D ,, (Norfolk Terrace, W.)...	A. P. Baker, Esq.	5	0 9	64 ↑	28·62	184
,, (Guildhall), E.C.	Col. Haywood, C.E. ...	8	2 6	49 ↑	25·36	166
,, (,,)	,, ,, ,, ...	8	51 0	98 ↑	25·71	166
,, (Old Street), E.C.	The Royal Meteor. Soc.	5	1 0	70 ↑	25·90	176
Perivale (Sewage Farm)	C. Jones, Esq., C.E. ...	5	12 0	56	25·62	174
D London (Gloucester Place W.) ...	W. B. Heberden, Esq..	5	2 6	...	27·06	186

DIVISION I.—MIDDLESEX.—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1891 inches.	Days on which ·01 or more fell.
MIDDLESEX—(*con.*)							
London (Regent's Pk. R. Bot. Soc.)	W. Sowerby, Esq.....	8	1	0	126 ⊼	29·73	178
,, (Old Ford).....	A. R. Binnie, Esq.,C.E.	8	1	0	35 ⊼	26·06	175
D ,, (Canonbury) N.....	Mrs. Spiller	5	1	3	117 T	27·42	178
D† ,, (Camden Square), N.W	G.J.Symons, Esq. F.R.S	8	0	8	111 ⊼	28·15	178
† ,, (,, ,,) .....M	,, ,, ,, ...	5	1	0	111 ⊼	28·46	...
† ,, (235, Camden Road), N....	W. B. Butler, Esq. ...	5	1	0	160 T	28·21	186
† ,, (,, ,,) ...M	,, ,, ,, ...	5	1	0	160 T	28·51	...
Hampstead (Roslyn House) N.W.	C. H. L. Woodd, Esq..	8	1	4	330 T	29·97	177
,, (Kidderpore Reserv.)	M. W. Hervey, Esq....	8	1	6	323 ⊼	28·45	170
D ,, (Branch Hill Lodge)	B. Woodd Smith, Esq.	8	0	10	380 T	27·51	160
† ,, (Squire's Mount) ...	Rogers Field, Esq. C.E.	5	1	0	388 ⊼	29·63	169
,, (The Pryors)	,, ,, ,, ,,	5	1	0	327 ⊼	28·98	186
D Stoke Newington Res., N.....	J. Francis, Esq., C.E.	9	3	3	104 T	25·57	160
D Highgate (Northwood Road).....	Mrs. Sowerby Wallis...	5	1	0	265 T	29·70	178
†Child's Hill (Helenslea), N.W....	A. J. Woodhouse, Esq.	5	1	6	245 T	30·58	171
*Upper Clapton (The Common) ..	J. Parnell, Esq.	5	1	1	98 ⊼	26·87	174
Finsbury Park (Endymion Ter.)	Rev. E. Healy	5	1	6	125 T	29·96	...
D Hornsey (Mount View Road) ...	G. T. Gwilliam, Esq...	5	0	9	230 T	30·51	189
D Tottenham	J. E. Worth, Esq., C.E.	8	1	0	47 T	28·11	181
D Muswell Hill	Miss Abethell.....	5	0	10	310 T	29·93	180
D ,, ,, (Irish Corner).	T.deC.Meade, Esq., C.E.	8	5	11	216 ⊼	29·82	176
Finchley East (Elmhurst).....	B. C. Wainwright, Esq.	8	0	7	300 T	30·91	172
D† ,, (Etchingham Park) ...	J. W. Scott, Esq.	5	0	11	295 T	30·23	181
D† ,, (,, ,,) ...	,, ,, ,, ...	8	1	3	295 T	30·28	181
D Pinner Hill.....	A. Helsham-Jones, Esq.	5	3	6	410 T	28·20	177
D Harrow Weald (Hill House) ...	A. Crossman, Esq.....	5	0	8	...	27·92	187
Stanmore Observatory	S. T. Klein, Esq.	5	1	0	262	28·10	203
D Friern Barnet (Sewage Works)..	BaldwinLathamEsq CE	5	1	0	156 ⊼	28·22	197
D Whetstone	,, ,, ,, ...	5	1	0	315 ⊼	28·56	183
D Enfield (Old Park)	A. L. Ford, Esq.	5	1	9	156 T	31·69	196
D ,, (Nag's Head Lane)	J. Francis, Esq., C.E..	12	3	0	108 T	30 52	191

DIVISION II.—SOUTH EASTERN COUNTIES.

SURREY.							
D Haslemere	J. W. Penfold, Esq. ...	8	4	0	481 ⊼	40·50	185
D ,, (Hazelhurst)	T. P. Newman, Esq.	5	1	0	550 T	42·22	204
,, (Grayswood Hill)	B. E. C. Chambers, Esq.	5	1	0	580 ⊼	39·33	...
Godalming (Dunsfold)	Mr. W. Underwood ...	5	2	0	166	?26·73	...
Haslemere (Weycombe)	G.B.Buckton, Esq.FRS.	5	1	0	562 ⊼	36·99	...
Godalming (Hascombe).....	E. S. Rowcliffe, Esq....	8	2	0	273 ⊼	30·45	...
D Cranleigh (Winterfold).....	Mr. R. Turvey	8	3	6	603 T	33·01	183
D Ewhurst (Heathside) .....*old g.*	J. Sparkes, Esq.	5	0	9	606 ⊼	38·15	212
,, (,,) ... *new g.*	,, ,, ...	5	1	6	600 ⊼	39·11	...
D Godalming (Witley)	Mrs. Foster.....	5	1	0	350 T	35·31	191
D ,, (Charterhouse)	O. H. Latter, Esq.....	5	1	0	200	32·42	183
D Ewhurst (Coneyhurst)	Miss Ewart.....	8	1	6	561 T	39·46	197

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued.*)

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	SURREY—(*con.*)						
	Dorking (Holmbury)	Late Mr. Bayman	5	0 6	560 T	38·74	237
D	,, (Abinger Hall)	Sir T. H. Farrer, Bt.	8	2 0	320 T	36·54	184
D†	,, (Holmwood)	A. Sconce, Esq.	5	1 2	320 T	37·73	129
D	Brockham Vicarage	Rev. A. Cheales	5	1 0	158 ⅄	34·33	172
D	,, (North Lodge)	H. R. Kempe, Esq.	8	0 9	...	35·24	136
D	Farnham (The Bourne Vicarage)	Rev. T. W. Sidebotham	5	1 0	308 ⅄	31·94	193
	,, (Averley Tower)	J. Box, Esq.	5	1 0	335 T	33·09	...
D	,, (Great Down, Seale)	Mrs. Kitchin	8	1 0	490 T	29·42	152
D	Guildford (Piccards Rough)	C. M. Powell, Esq.	5	2 0	325 T	30·52	159
D	,, (Guildown The Beeches)	Miss Hadden	5	0 11	220 T	30·77	197
D	Reigate (Woodhatch Lodge)	T. B. Haywood, Esq.	5	1 0	270 T	34·19	198
D	,, (Ringley Mead)	R. L. Hesketh, Esq.	5	1 0	345 T	35·55	199
D	,, (Sewage Farm)	F. D. Clark, Esq., C.E.	8	1 0	196	30·08	147
D	Dorking (The Denbies)	Mr. J. Beesley	5	0 6	610 T	38·28	182
D	Buckland (Shagbrook)	Miss Carr Saunders	5	1 0	240 T	32·61	175
D†	Red Hill (Oxford Road)	W. H. Tyndall, Esq.	8	1 0	300 ⅄	36·57	191
D	Reigate (Dovers Lodge)	R. W. Clutton, Esq.	5	0 7	192	34·67	188
D	,, (Holmfels)	Miss Baker	5	1 0	264 T	34·63	192
D	,, (Castle Grounds)	Mr. Jeal	5	1 0	325 ⅄	32·84	190
D	,, (Doods)	G. E. Pym, Esq.	5	1 3	350 ⅄	35·28	202
†	,, (Wray Park)	Late A. Rosling, Esq.	5	1 0	330 T	36·25	165
D	,, (Nutwood)	H. E. Gurney, Esq.	5	1 4	440 T	34·89	183
D	Nutfield Priory	J. Fielden, Esq.	8	1 2	468 ⅄	33·10	194
D	,, (Holmesdale)	C. T. Maw, Esq.	8	1 6	500 T	33·03	184
	Reigate Hill (Lovelands)	R. Binns, Esq.	5	1 3	600 ?	*39·53*	...
D	Guildford (Wern)	Miss Mathew	5	4 0	170	28·38	168
D	Dorking (High Ashurst)	The Hon. H. D. Ryder	5	10 0	545	35·16	160
	Horsley Towers	The Earl of Lovelace	8	1 6	340	26·73	...
D	Bookham Lodge	Hon. Rev. H Waldegrave	8	0 7	140	28·54	170
	Leatherhead (Downside)	A. Tate, Esq.	...	...	...	28·07	...
D	Caterham Asylum	Dr. Elliot	5	1 0	610	38·69	167
D	,, Valley (Birchwood Ho.)	Messrs. C. & F. Rutley	5	1 0	471 ⅄	35·57	199
	,, ,, (The College)	F. C. Bayard, Esq.	5	1 0	500	36·72	169
D	Camberley (Heathcote)	Maj.-Gen. Stotherd C.B.	5	1 0	292 ⅄	28·46	170
	Coulsdon Grange	F. C. Bayard, Esq.	5	1 4	525	31·95	142
D	Kenley (Ingleside)	H. Smith, Esq.	8	1 0	375 T	37·55	221
D	Ashtead (D'Abernon Chase)	Sir W. Vincent, Bart.	5	1 0	300 T	32·99	181
D	Cobham (Leigh Hill House)	J. Macaulay, Esq.	5	0 7	79	29·97	169
	Banstead (The Larches)	Rev. C. J. Taylor	8	1 0	488 T	34·35	184
D	Purley (Tudor Cot.)	F. C. Bayard, Esq.	5	1 0	216 ⅄	37·25	223
D	,, (Reedham)	,, ,, ,,	5	1 0	375	34·35	204
D	Bagshot (Collingwood)	Mr. J. Bryan	5	1 0	396 ⅄	30·10	188
D	Chertsey (Ottershaw)	R. H. Otter, Esq.	5	1 0	200 T	27·73	206
D	Windlesham (Erlwood)	E. S. Currey, Esq.	5	1 0	220	29·33	183
D	Weybridge Heath (Netherfield)	C. H. Parkes, Esq.	5	1 0	160	29·20	175
	,, ,, (Oakfield)	H. Yool, Esq.	5	1 0	107 ⅄	30·13	...
D	,, (Field Place)	,, ,,	5	1 0	119 ⅄	30·31	193
D	,, (St. George's Lodge)	Mrs. Smith	5	1 9	...	29·21	180

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	SURREY—(*con.*)						
	Weybridge (Church Street) ...M	H. Yool, Esq.....	5	1 0	55 ⅄	29·90	...
D	Esher (Sewage Works).....	Baldwin Latham Esq CE	5	1 0	42 ⅄	?22·75	198
	Walton-on-Thames (Hersham)..	W. H. Dines, Esq.... ..	8	1 0	55 ⅄	29·52	170
D	Addington (Hares Bank).....	F. C. Bayard, Esq. ...	8	1 0	331 ⅄	33·49	211
D	,, (Park Farm)	,, ,, ,, ..	5	1 0	268 ⅄	33·94	207
D	,, Hills.....	,, ,, ,, ...	8	0 9	473 ⅄	*32·70*	199
D	Wallington.....	,, ,, ,, ...	5	4 1	157 ⅄	32·12	205
	†Sutton (Mulgrave Road)	W. Goode, Esq.....	5	5 6	230 ⅄	30·82	183
D	Carshalton (The Wrythe).....	J. W. Manley, Esq. ...	5	4 10	107	28·90	180
D	Beddington.....	S. Rostron, Esq.....	5	1 0	120	31·46	183
D	Croydon (Waddon House)	P. Crowley, Esq.	5	1 0	156 ⅄	29·65	198
D	,, (Wadden New Road)..	G. Corden, Esq.....	5	1 0	150	30·00	191
D	,, (The Whitgift)	A. E. Watson, Esq. ...	5	1 0	191 ⅄	31·53	188
D	,, (Brimstone Sew. Works)	F. C. Bayard, Esq. ...	5	1 0	130 ⅄	27·57	164
D*†	,, (Addiscombe)	E. Mawley, Esq	8	0 9	202 ⅄	30·34	196
D	,, (,, Havelock Rd.)	Baldwin Latham Esq CE	8	1 0	205	30·55	204
	,, (Oakfield Road)	A. Malden, Esq.	5	1 6	...	28·70	...
D	Chertsey (Long Cross)	C. H. Berners, Esq. ...	8	1 9	168 ⅂	29·39	199
	,, (Burley Orchard)	W. A. Herring, Esq....	5	1 6	30	25·95	...
D	Surbiton (Seething Wells)	R. Hack, Esq., C.E. ...	10	0 6	25	27·77	161
D	East Molesey (Palace Road).....	Mrs. Jenkyns.....	8	6 5	37	28·24	188
D	Kingston Sewage Works	F. C. Bayard, Esq. ...	5	1 0	25	28·81	171
D	Wimbledon (Mount Ararat).....	T. Devas, Esq.	12	3 0	157 ⅂	28·39	186
D	,, (Raynes Park)	F. C. Bayard, Esq.....	5	1 0	47	30·04	209
D	,, (Sewage Works).....	,, ,, ,, ...	5	1 0	58 ⅄	28·50	185
D	South Norwood (Whitworth Rd).	,, ,, ,, ...	5	1 2	200	29·17	183
D	West Norwood (Thornlaw Road)	W. Marriott, Esq.	8	1 0	221	28·40	187
	Egham (Cooper's Hill)	The Meteor. Council ...	8	1 1	280	29·42	211
	Dulwich (Alleyn Park):.....	Miss K. G. Scott.....	5	1 6	130?	28·55	164
D	Richmond (Ormond Lodge)	J. T. Billett, Esq.	5	0 9	51	27·45	187
D	Kew Observatory	The Kew Committee ...	11	1 9	19 ⅄	26·85	182
	Brixton (Acre Lane).....	The Meteor. Council ...	8	1 0	77 ⅂	28·11	179
D	Nunhead (Southwark W. W.)...	J. W. Restler, Esq., C.E.	5	...	...	?21·13	154
D	Battersea Creek	A. R. Binnie, Esq., C.E.	8	27 2	41 ⅄	26·21	131
D	,, (Southwark W. W.). .	J. W. Restler, Esq., C.E.	5	...	...	?22·14	154
D	Vauxhall Cross (Wandsworth Rd.)	A. R. Binnie, Esq., C.E.	8	30 9	48 ⅄	23·34	162
	KENT.						
	Dungeness	The Meteor. Council ...	8	...	...	28·12	184
D	Hawkhurst (Sandhurst Rec) *Gard.*	Rev. G. Ridout	5	1 3	208 ⅄	31·65	163
D	,, (,, ,,) *Lawn*	,, ,, ...	5	1 3	206 ⅄	32·19	160
D	Dymchurch Rectory	Rev. C. E. Plater	8	1 6	0	25·74	163
	Rolvenden (Hole Park).....	A. Curteis Neve, Esq...	5	1 0	220	31·94	...
	Tenterden (Summerhill)	Rev. A. Wilkin.....	12	1 6	149 ⅄	29·90	178
	Benenden Vicarage	Rev. Canon Joy.....	8	1 6	330	?*29·82*	...
	,, (East End)	J. Ellis Mace, Esq.....	8	1 2	193 ⅄	32·43	...
D	Tenterden	,, ,, ,,	8	1 5	190 ⅄	31·00	204

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above SeaLevel	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
KENT—(*con.*)						
Tenterden ..... *Snowdon*	J. Ellis Mace, Esq. ...	8	1 5	190 ⅄	30·67	...
,, (Little Westwell) ...	Mr. W. Hilder	5	1 0	140	30·74	...
,, (Ashbourne)	A. Pinyon, Esq.....	5	2 8	45 T	30·24	...
D†Hythe	H. B. Mackeson, Esq...	8	0 6	12 T	30·02	204
† ,, (Hillhurst Farm)	G. F. Deedes, Esq. ...	5	2 0	280 T	31·48	194
Cranbrook (Swattenden)	Miss Appach	8	1 2	350 T	31·12	187
† ,, (Hartley)	G. Pile, Esq.	5	4 0	405 T	33·35	188
D Folkestone (Dover Road)	Mr. Goodliffe	5	1 0	90 T	29·46	195
,, (Capel Lodge).....	E. Norton, Esq., M.D..	5	1 0	470 T	29·56	194
†Hythe (Paddlesworth)	Mr. R. Dixon	8	1 0	608 ⅄	39·26	...
D†Acrise (School Ho.)	G. C. Woollett, Esq. ...	8	1 0	504 ⅄	38·19	211
D Tunbridge Wells (Camden Park)	J. Weston, Esq.	5	0 9	424 ⅄	38·00	219
,, ,, (Bredbury) ...	F. G. Smart, Esq.....	5	1 0	415	40·51	207
D ,, ,, (Ferndale).....	A. Keene, Esq.	8	1 0	370 T	38·22	217
D Cranbrook (Camden Lodge)	Mr. A. Habbitts.....	5	1 0	276 T	31·59	174
D Ashford (Bethersden)	W. H. Mold, Esq.....	5	4 0	112 ⅄	28·43	186
D ,, (Beavor Green)	T. Nickalls, Esq.	5	1 0	155 T	32·41	194
Tunbridge Wells (Etherton Hill)	E. W. Winton, Esq....	5	1 5	276 ⅄	*32·90*	...
,, ,, (Pembury) ...	W.Brentnall, Esq.C.E.	8	1 8	181 ⅄	30·92	172
Tunbridge (Penshurst Place) ...	The Hon. H. Sidney...	5	0 11	115 T	34·16	...
D ,, (,, Park).....	Mr. J. M. Sturgess ...	5	0 4	265 T	35·25	183
D ,, (St. Mary's).....	W. C. Punnett, Esq....	5	1 6	96 ⅄	33·20	168
,, (,, ,,) *Snowdon*	,, ,, ,, ...	5	1 0	96 ⅄	32·47	168
,, (,, ,,) .....M	,, ,, ,, ...	8	4 0	98 ⅄	31·83	...
Shepherdswell (Hazlingdane) ...	F. A. Mackinnon, Esq.	8	0 8	500	32·18	...
D Ashford (Pluckley)	Mr. F. Kingsnorth ...	5	5 0	120 T	*26·92*	201
D ,, (Westwell)	Rev. H. H. D'Ombrain	5	1 0	272 ⅄	30·95	172
Edenbridge (Falconhurst)	J. G. Talbot, Esq., M.P.	5	1 0	300	34·88	145
D Lower Walmer	Mr. H. R. L. Botting..	5	1 4	20	26·58	168
D†Maidstone (Hunton Court)	Mr. E. Hall	8	0 6	80 T	26·45	169
,, (Linton)	Mr. C. Pratt	5	3 2	...	26·33	180
D ,, (,, Park)	,, ,, ...	5	1 0	...	28·71	185
D ,, (Lower Tovil)	Lawrence Green, Esq..	5	1 0	30 L	26·41	188
D ,, (Mount House)	C. A. Case, Esq.....	5	1 0	160 T	28·82	174
D ,, (Hospital).....	M. A. Adams, Esq. ...	5	0 8	200	24·89	154
,, (Town Malling)	Rev. C. H. Fielding ...	...	...	155	32·16	...
D ,, (Debtling)	R. Cooke, Esq.	5	1 2	330 T	27·84	204
Sheldwich	Rev. B. S. Malden.....	5	1 0	250 T	32·37	183
D†Selling (Harefield).....	E. Neame, Esq.	5	2 6	217 T	32·98	195
D Canterbury (Burgate Street) ...	B. Rigden, Esq.....	5	9 6	58 ⅄	29·22	161
,, (Harbledown)	Miss Metcalfe.....	5	1 6	165 ⅄	26·27	165
D ,, (Sewage Works)	F. Baker, Esq., C.E....	5	0 7	18 ⅄	29·85	212
†Seven Oaks (River Hill)	J. T. Rogers, Esq.....	8	3 6	535 ⅄	31·64	157
D ,, (Clare Bank)	J. M. Clabon, Esq	5	4 0	540 T	37·19	199
D ,, (Purleigh)	W. W. Wagstaffe, Esq.	6	1 5	330	37·66	209
D† ,, (Riverhead Vic.) ...	Rev. J. M. B. Murdoch	5	0 6	300 T	29·75	155
Aylesford (Preston Hall)	Mr. A. Waterman.....	5	1 6	80 T	27·45	...
D Sittingbourne (Sharsted Court).	Faunce de Laune, Esq.	5	1 0	276 T	29·96	195

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above SeaLevel	Depth of Rain. 1891	Days on which '01 or more fell.
				ft. in.	feet.	inches.	
	KENT—(*con.*)						
D	Lynsted (The Batteries)	R. M. Mercer, Esq.	5	1 0	140	28·79	198
	Ospringe (Lorenden)	W. C. Stunt, Esq.	5	1 3	180 ?	28·13	157
	Knockholt (Kent Waterworks)	F. C. Bayard Esq.	5	1 0	785	36·11	..
D	Keston (Bradfield)	A. Hill, Esq.	5	1 0	350 T	32·20	203
D	,, (Heathfield)	Miss Holland	5	0 6	420 T	35·32	207
	,, (,,) M	,, ,,	5	0 6	420 T	36·25	...
D	,, Tower	G. Buchanan, Esq., C.E.	8	0 11	351 T	35·05	180
D	Ash (Pettings House)	C. J. G. Hulkes, Esq.	5	5 0	530	23·61	169
D	Reculver (Brook)	A. Collard, Esq.	5	6 3	40	23·95	176
D	Hayes (Layham's Farm)	W. Ashcroft, Esq.	5	1 1	500	34·62	179
D	,, Common (The Warren)	Miss Akers	5	1 0	296	31·22	210
D	Orpington (Kent Waterworks)	F. C. Bayard, Esq.	5	1 0	220	26·91	163
D	Farningham Hill	,, ,, ,,	5	3 0	300	28·87	204
	Chatham	The Meteor. Council	8	1 3	137	22·19	178
D	Rochester (Knights Place)	J. Pye, Esq.	5	2 3	320	27·97	189
D	Margate (Renfrew Villa)	Late T. Twyman, Esq.	5	1 0	79 T	24·11	187
	,, (Apsley House)	J. Stokes, Esq.	5	1 5	84 L	23·54	178
D	,, (,, ,,)	,, ,,	5	1 0	84 L	23·93	178
D	Sheppey (Leysdown)	Rev. A. Farbrother	5	1 2	47	20·37	189
D	Frindsbury (Manor Farm)	F. Baker, Esq.	5	1 0	100	23·23	160
D	Bickley (Highfield)	J. Batten, Esq.	5	1 2	295	31·10	190
	Chislehurst (Abbey Lodge)	Col. Silver	5	1 5	...	26·87	143
D	,, (The Chestnuts)	J. B. Snell, Esq.	5	1 0	325 T	28·29	209
D	Wilmington (Kent Waterworks)	F. C. Bayard, Esq.	5	1 0	25	24·42	188
D†	Beckenham (Foxgrove)	Percy Bicknell, Esq.	5	0 6	142 ⅄	24·28	172
D†	,, (,,)	,, ,, ,,	5	4 0	145 ⅄	23·27	165
D	,, (,, Road)	C. S. Pringle, Esq.	8	1 0	147	27·74	172
D	Sidcup (Hatherley Road)	Dr. L. Burrell	5	1 2	350	27·22	166
D	Rochester (Abbot's Court, Hoo.)	Warwick Stunt, Esq.	5	1 0	10	19·96	178
D	Forest Hill (Newfield House)	Miss Behrens	5	1 0	220	27·94	165
D	,, (The Nurseries)	Messrs. J. Carter & Co.	5	0 5	...	28·55	173
D	,, (Barr Beacon)	J. W. Restler, Esq., C.E.	5	1 0	344 ⅄	*26·64*	185
D	Gravesend (Park Place)	Mrs. Walker	5	1 0	24?	22·41	159
D	Rochester (Cooling Castle)	W. Wood, Esq.	5	4 10	10	23·89	138
D	,, (Hoo St. Mary)	H. Pye, Junr., Esq.	5	5 6	146 T	20·91	191
	Lewisham (Hither Green)	E. J. C. Smith, Esq.	5	1 0	100?	24·11	...
	Blackheath	J. Glaisher, Esq., F.R.S.	8	1 0	150	25·10	174
D	,, (WestcombeParkRd.)	Rev. W. H. R. Soames	8	1 4	120	23·88	153
	,, Park (Elmsdale)	C. Lethbridge, Esq.	5	0 11	90	22·59	198
	Greenwich (Royal Observatory)	W. H. Christie, Esq. F.R.S	8	0 5	155 T	25·04	178
	Deptford (Kent Waterworks)	F. C. Bayard, Esq.	5	1 0	20	24·15	...
D	,, (Pumping Station)	A. R. Binnie, Esq., C.E.	10	1 6	15	28·57	162
D	Woolwich (Powis Street)	Mr. J. G. Waller	5	30 0	65	23·87	185
	Erith (Crossness)	A. R. Binnie, Esq., C.E.	14	1 0	16 ⅄	21·98	175
	,, (,,)	,, ,, ,,	14	1 0	24 ⅄	22·15	175
	WEST SUSSEX.						
D	Bognor (Lidsey Lodge)	H. Neale, Esq.	8	1 2	...	31·31	170
	Littlehampton (Surrey House)	G. Neame, Esq.	5	1 6	20 T	30·78	...

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft.	in.	Height Above SeaLevel feet.	Depth of Rain. 1891 inches.	Days on which ·01 or more fell.
WEST SUSSEX—(*con.*)							
D Worthing (Heene)	W. J. Harris, Esq. ...	8	1	0	34 ⅄	29·43	172
,, (,,)	,, ,, ...	8	1	0	35 ⅄	29·55	...
,, (Infirmary)	,, ,, ...	5	1	0	22	31·90	190
D Arundel (Yapton)	W. A. Hounsom, Esq..	5	1	0	24 ⅄	32·69	175
,, (,, Drove Farm).	,, ,, ,, ...	5	1	0	14 T	31·54	180
Angmering	Rev. J. B. Orme.....	5	1	3	...	30·88	...
Chichester (WestgateMeadow)...	Dr. Tyacke.....	8	0	6	40	33·37	151
D Arundel (Clapham Rectory) ...	Rev. A. H. S. Barwell	5	1	0	150 T	34·10	192
,, (Patching)	J. Drewitt, Esq.....	5	1	0	180	34·12	169
,, (,,)	Mrs. Joad	5	0	10	130 T	31·15	185
D ,, (The Parade)	R. Holmes, Esq.	8	3	1	75	32·89	168
Bramber (Maudlin)	Mr. H. J. Hide	5	1	0	80	33·20	130
D†Steyning	Col. Ingram	5	1	0	80 T	38·68	122
Chichester (Eartham House) ...	Sir P. Milbanke, Bt....	3	4	6	316 ⅄	30·31	...
,, (Selhurst Park)	C. O. Newman, Esq....	5	0	10	300 T	36·53	170
D ,, (Forest Side Vic.) ...	Mrs. J. C. Parson	5	1	0	341	41·56	176
D ,, (Watergate Gardens)	R. Christy, Esq.	5	3	6	220 T	41·42	184
D ,, (West Dean)	Mr. G. Broomfield.....	5	1	6	190 T	47·32	165
,, (Singleton Rectory)...	Rev. F. A. Bowles.....	5	1	0	240	43·72	...
† ,, (Chilgrove)	J. W. Woods, Esq. ...	5	0	6	284 T	41·59	...
D Compton [Petersfield]	Rev. H. M. Langdale...	5	1	0	255 ⅄	45·39	201
†Petworth Rectory	Rev. C. Holland.....	5	4	0	180 ⅄	42·15	164
Cowfold (The Laurels)	Mr. S. Ford	6	1	6	273	33·38	...
D Midhurst (Borden Wood).....	T. J. Hare, Esq.	5	1	2	280 T	37·86	176
,, (Lynch Farm)	G. Eames, Esq.	5	0	6	160 T	44·68	...
D Horsham (Bourne Hill).....	F. W. Pigott, Esq.....	5	1	0	250 T	35·10	166
,, (Manor House)	H. Padwick, Esq.	8	0	10	140 T	34·84	178
D ,, (Wimblehurst)	Miss Allcard	5	3	7	220 T	34·19	174
EAST SUSSEX.							
Beachy Head ..... M	Miss Brodie Hall	5	1	0	515 T	25·13	...
,, ,, ... M	,, ,, ...	5	1	0	495 T	25·46	...
D Eastbourne (East Dean)	E. W. Adamson, Esq..	5	1	0	180	27·40	157
,, (Wilmington Square)	R. Sheward, Esq.	8	0	6	69	33·08	155
D† ,, (Osborne House) ...	Miss Brodie Hall	5	1	0	12 T	33·07	183
D† ,, (The Gore)	,, ,, ,, ...	5	1	0	85 T	32·89	186
D† ,, (Cemetery)	,, ,, ,, ...	5	4	0	160 ⅄	33·53	163
†Brighton (Kemp Town)	Mr. Wyatt	5	1	0	82 T	31·43	134
† ,, (Old Steine)	Dr. Newsholme	5	0	8	32 T	34·02	155
† ,, (Blatchington Road) ...	Mr. J. Park	8	0	6	55 T	30·90	...
D ,, (Prestonville Road) ...	F. H. Phillips, Esq. ...	5	1	0	185 T	32·03	195
D ,, (,, ,,) ...	,, ,, ,, ...	8	1	0	185 T	32·04	195
,, (W.W.GoldstoneBotm).	J. Baker, Esq.	5	0	10	140 ⅄	31·91	...
,, (W W., Lewes Road)	,, ,, ...	5	3	8	105	32·20	...
Bexhill	The Royal Meteor. Soc.	8	1	0	45	31·71	...
St. Leonards (London Road) ...	The Meteor. Council ...	5	1	0	166 T	30·55	194
D ,, (The Grove)	W. B. Young, Esq. ...	5	1	1	110 T	32·19	190
D Hailsham.....	Rev. F. Clyde Harvey..	5	1	0	105	35·39	141

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height above Ground.	Rain Gauge. Height above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
EAST SUSSEX—(*con.*)						
D† Falmer	R. R. Verrall, Esq.	5	3 0	312 ⇈	40·86	157
D Lewes (Iford)	A Hillman, Esq.	5	1 0	33 T	39·07	182
D† ,, (Glynde Place)	Mr. W. McLeod	5	4 6	49 T	36·78	178
D ,, (Bedford Lodge)	Mrs. Kemp	5	1 0	100 T	29·83	177
D ,, (Southmalling)	Miss M. H. Rickman	5	4 6	40 ⇈	26·64	168
†Hastings (HighBeechHollington)	Col. Lewis	5	1 0	320 T	30·16	177
Lewes (Conyborough Park)	Lord Monk Bretton	...	...	...	42·15	...
D Hurstpierpoint (Danny Park)	Mr. J. Bunney	...	1 3	180	*38·44*	142
D Winchelsea (The Friars)	Miss Stileman	5	1 2	115 T	27·71	158
Battle (Whatlington)	F. Gripper, Esq.	5	1 3	...	31·39	169
D Warbleton (The Rectory)	Rev. R. G. Penny	5	1 1	182	35·48	188
†Waldron (Bryckden)	J. Graham, Esq., M.D.	5	1 0	320 ⇈	36·13	...
† ,, (,,)	,, ,, ,,	8	1 0	320 ⇈	35·56	...
D Newick (Ketches)	Capt. G. Ruck Keene, RN	8	0 7	133 T	32·18	149
,, (Beechlands)	T. St Leger Blaauw, Esq.	5	1 1	160 T	35·52	148
,, (,,)	,, ,, ,,	5	...	...	32·27	...
D Uckfield House	Miss L. Day	8	0 8	200 B	32·70	184
D Cross in Hand (Montpellier)	A. Brown, Esq.	5	1 0	475	36·33	189
Haywards Heath	C. E. Saunders, Esq. MD	5	1 1	281	31·07	166
Buxted (Strawberry Hall)	C. Rintoul, Esq.	5	1 0	220	31·66	...
D† Maresfield (Forest Lodge)	Capt. W. Noble	8	1 2	247 ⇈	37·04	221
D Cuckfield (Borde Hill House)	Mr. R. Inglis	5	3 0	270 B	35·36	183
,, (Workhouse)	The Meteor. Council	...	...	...	30·04	168
D† Mayfield Vicarage	Rev. H. T. M. Kirby	8	0 8	425 T	36·62	174
D† Crowborough (The Observatory)	C. L. Prince, Esq.	8	0 8	770 ⇈	42·37	180
D Balcombe Place	Mr. Warren	8	1 3	289 T	37·72	182
D ,, (Highley Manor)	R. C. Nichols, Esq.	8	1 6	422 ⇈	39·50	168
D Ticehurst	Mr. Stratton	5	4 9	423 ⇈	35·70	161
D Wadhurst (Lower Cousley Wood)	F. Wilkin, Esq.	5	1 0	416 ⇈	35·00	176
Frant (Eridge Castle)	Mr. J. Rust	5	1 0	400	44·87	169
D Withyham (Leyswood)	Mr. T. C. Moorhouse	8	1 4	420	41·78	161
Forest Row (Ashdown Cottage)	H. J. Slack, Esq.	8	4 2	386 B	36·52	...
D Worth (South Hill)	P. E. Ravenshaw, Esq.	5	1 6	558 T	43·16	215
,, Rectory (*East gauge*)	Rev. G. W. Banks	5	1 10	300 ⇈	42·23	196
D East Grinstead (Old Stone House)	P. E. Wallis, Esq.	5	4 0	448 ⇈	38·52	170
D ,, ,, Station	Mr. G. Mitchell	8	2 2	410	36·34	195
,, ,, (Halsford Park)	W. V. K. Stenning, Esq.	5	1 3	365 ⇈	39·21	184
HAMPSHIRE.						
ISLE OF WIGHT.						
Ventnor (Consumption Hospital)	The Royal Meteor. Soc.	5	1 0	75 T	31·68	166
D Sandown (Lake Hill)	W. E. Green, Esq	5	1 0	105	37·48	157
Brading	Rev. E. Summers	5	1 6	60	27·97	...
D Totland Bay (Wilmington)	J. Dover, Esq.	5	1 0	85 T	36·74	187
D Newport (Lugley House)	Rev. E. W. Watts	5	1 0	...	38·96	172
D Yarmouth (National School)	Mr. F. C. Spray	5	1 0	8	32·36	165
Ryde (Thornbrough)	Col. Clarke	5	1 0	143 T	39·73	192

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above SeaLevel	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
HAMPSHIRE—(*con.*)						
ISLE OF WIGHT—(*con.*)						
Wootton (Fernhill)	F. Brodie, Esq.	8	0 6	118 T	37·04	...
D†Osborne (Newbarn Cottage)	J. R. Mann, Esq.	8	0 8	172 ⅄	36·06	155
D West Cowes (Holmwood)	C. T. Maw, Esq.	8	0 8	40 T	36·07	185
Hurst Castle	The Meteor. Council	8	0 11	9	36·21	184
D Bournemouth (Wellington House)	Messrs. Primavesi Bros	5	1 0	100 T	35·85	184
,, (Lansdowne Road)	Miss Sworn	5	1 2	123 T	37·18	180
D Christchurch (Mudeford)	F. H. D. Eyre, Esq.	5	0 3	15 L	32·07	170
D ,, (Kenilworth)	J. H. Bridgford, Esq.	5	1 2	100 ?	37·35	171
D Lymington (Pennington)	Miss E. S. Lomer	5	0 9	96 T	37·51	174
Portsmouth (Milton)	Dr. Mumby	5	1 0	18	31·25	184
South Hayling	F. Padwick, Esq.	5	1 0	10	28·74	...
D Porchester (Noel Cottage)	Miss Montgomery Frost	...	1 0	...	34·62	210
D Havant (Farlington)	H. R. Smith, Esq., C.E.	5	1 0	77 T	27·40	187
,, (,,)...M	,, ,, ,,	5	1 0	77 T	27·34	...
D ,, ...M	,, ,, ,,	5	1 0	25 T	32·02	160
,, ...M	,, ,, ,,	5	1 0	25 T	32·23	...
D Emsworth (Redlands)	F. Jacomb Hood, Esq.	5	1 0	90 T	33·12	170
D Southampton (Cadland)	J. Laurie, Esq.	8	4 6	52 T	41·96	194
D ,, (Netley)	Prof. J. Lane Notter	8	0 5	37 ⅄	38·97	191
D ,, (,, Lake Ho.)	Col. Pennington	8	1 0	54 ⅄	38·76	212
,, (Ordnance Surv. Off.)	Col. Sir C. Wilson, FRS.	5	1 0	79 ⅄	38·80	177
D Wickham (West Lodge)	RevStanhope Rashleigh	5	0 11	315 T	37·45	184
D Botley (Hall Court)	Adml. Murray-Aynsley	8	1 6	105	39·92	172
D Horndean (St. Catherines)	Miss Barnes	8	1 7	417 T	43·09	217
D Idsworth House	Mr. N. F. Fuller	5	1 0	300 T	44·52	190
Southampton (Millbrook)	A. Spooner, Esq.	5	1 1	10	37·99	...
D ,, (Highfield)	Rev. H. Garrett	5	1 0	130 ⅄	38·92	211
D† ,, (Red Lodge)	R. C. Hankinson, Esq.	5	0 6	206	36·15	181
,, (,, ,,)...M	,, ,, ,,	5	4 0	200 T	37·67	...
D Fordingbridge (Oaklands)	Late T. Westlake, Esq.	8	1 0	135 T	39·88	160
D Hambledon (Rosecroft)	Mr. L. Dawes	5	2 6	180	42·49	161
Bishops Waltham (Swanmore House)	W.H.Myers, Esq., M.P.	8	1 0	390 T	38·52	156
,, ,, (Northbrook Ho.)	H. W. Trinder, Esq.	5	1 0	140	40·74	184
Droxford (Fir Hill)	Rev. S. King	5	1 0	212	34·98	197
Fordingbridge (Wood Green)	H. Hinxman, Esq.	5	1 2	140 ⅄	37·35	...
Petersfield (Liss Place)	F. Coryton, Esq.	7	0 7	250 ⅄	39·74	...
D Alresford (Hinton Ampner)	Rev. J. Heberden	8	4 4	330	44·27	163
D ,, (Cheriton Rectory)	Rev. A. Orr	5	2 0	240	43·53	163
Stockbridge (Compton Gardens)	Mr. A. J. Long	8	0 6	220	35·25	...
D Alresford (Ovington)	Rev. A. H. Stocker	5	1 0	221 T	42·05	195
,, House	Mrs. Wood	5	1 6	238 ⅄	41·72	171
D Alton (East Tisted Rectory)	Rev. F. Howlett	5	1 1	420 ⅄	42·65	176
D ,, (The Wakes, Selborne)	General Parr	5	5 3	400	43·13	169
D Winchester (Harestock)	Col. Knight	5	1 0	302 ⅄	41·68	202
Liphook (White Hill Chase)	Col. R. H. Maude	5	1 0	300 ⅄	38·09	127
,, (Bramshott Rectory)	Mr. W. Steptoe	5	1 0	414	38·86	...

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	Height Above Ground in.	Height Above Sea Level feet.	Depth of Rain. 1891 inches.	Days on which .01 or more fell
HAMPSHIRE—(*con.*)							
D Headley (Arford House)	A. F. Parbury, Esq.	5	1	0	252 T	36·84	153
D Alresford (Swarraton Rectory)	Rev. W. L. W. Eyre	5	1	0	310 ⅄	40·60	180
Alton (Thedden Grange)	J. G. Wood, Esq.	8	3	0	600 T	44·38	...
D† ,, (Ashdell)	F. Crowley, Esq.	8	3	6	433 ⅄	40·85	177
,, (Eagles Nest)	,, ,,	5	52	4	505	24·46	...
Micheldever (Northbrook)	J. A. Caird, Esq.	5	1	1	270 T	44·11	...
D Whitchurch (Long Parish)	C. Durnford, Esq.	...	...		...	36·66	178
Andover (The Knoll)	G. H. Westbury, Esq.	6	0	10	196 T	37·00	200
Tedworth House [Ludgershall]	Mr. G. A. Inglefield	5	1	8	357 T	39·47	178
Aldershot	D. T. Livesey, Esq.	5	1	8	250 ⅄	*31·11*	162
D Basingstoke (Chapel Hill)	G. Stephens, Esq.	5	1	0	328 T	34·90	200
D Fleet (Claremont House)	Miss L. Pasley	8	2	0	280	34·47	153
Basingstoke (Monk Sherborne)	Rev. Canon Willes	5	1	6	314 ⅄	35·24	193
D† ,, (Sherborne St. John)	Rev. D. W. Chute	5	1	2	267 T	35·22	211
D Winchfield (Elvetham Park)	Mr. T. Jones	8	1	0	217	32·81	182
Farnborough (The Grange)	Major Holt	5	1	0	232 T	32·92	190
Kingsclere (Ramsdale)	Miss A. F. R. Fuller	5	1	0	341 ⅄	34·76	173
Hartley Wintney	Mr. W. G. Machin	5	1	2	210	30·86	182
,, Grange	W. Walkinshaw, Esq.	5	1	0	220 ⅄	29·20	...
,, Wespall	Rev. J. C. Keate	8	0	9	233 ⅄	29·19	...
Bramley	Rev. C. Eddy	8	0	9	230 T	33·43	...
D† Strathfield Turgiss	Rev. C. H. Griffith	5	3	0	200 ⅄	31·87	206
Heckfield (Park Corner)	J. Martineau, Esq.	5	1	2	257	27·93	...
BERKS.							
D Sandhurst Lodge	Sir W. J. Farrer	8	2	9	260	33·15	181
Newbury (Donnington Sq.)	W. J. Cowper, Esq.	5	3	6	286 T	35·51	193
D Wokingham (Wellington Coll.)	S. A. Saunder, Esq.	5	1	0	283 ⅄	31·27	176
Hungerford (Denford Park)	General Cherry	5	1	2	430 T	37·54	201
Bracknell (Warfield)	Rev. B. C. Littlewood	5	0	4	199 T	24·19	210
D Wokingham (Binfield Park)	W. R. Cookson, Esq.	8	1	1	...	29·84	182
Old Windsor (Beaumont College)	Rev. H. G. Fraser	5	1	0	105	29·44	175
D Windsor (Royal Gardens)	Mr. T. Edwards	5	1	0	...	29·63	200
Reading (Englefield)	R. Benyon, Esq.	5	1	1	...	34·18	175
D† ,, (Russell Street)	Dr. Workman	5	1	3	154 ⅄	29·39	177
D ,, (Forbury Gardens)	A. W. Parry, Esq., C.E.	5	1	5	145 ⅄	28·90	183
,, (East Thorpe)	A. Palmer, Esq.	5	3	0	157 T	30·52	176
Newbury (Welford Park) *old g.*	Mr. C. Ross	5	1	0	335 ⅄	37·26	198
D ,, (,, ,,) *new g.*	,, ,,	5	1	0	341 T	37·93	198
,, (Weston)	R. Osmond, Esq.	5	0	8	338 T	38·40	212
D Yattendon	A. Waterhouse, Esq. R.A.	5	1	0	450	32·10	165
D Lamborne (The Laburnums)	R. C. Mawley, Esq.	5	0	9	415 T	35·33	188
D Maidenhead (Lowood)	Major-Gen. Davies	8	1	0	167 T	28·82	166
D ,, (Castle Hill House)	F. C. Young, Esq.	6	1	0	163	31·84	212
D ,, (Cookham Vic.)	Rev. R. W. Rogers	5	1	3	90 T	28·15	166
Shrivenham (Ashbury Vic.)	late Rev. H. Miller	5	1	0	479 ⅄	34·08	...
D Wantage (Letcombe Regis)	S. W. Silver, Esq.	5	0	9	...	32·89	165
Wallingford Castle	J. Kirby Hedges, Esq.	5	0	9	175 ⅄	28·71	187

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
BERKS—(*con.*)						
D Little Wittenham Rectory	Rev. Percy Burd	5	1 0	187 T	27·61	179
D ,, ,, ...	T. Latham, Esq.	5	2 0	187	28·69	144
D Long Wittenham (Manor Ho.)...	Capt. Clutterbuck, R.N.	12	1 0	165 T	29·36	165
,, ,, (Lovegrove's Cott.)	Rev. F. C. Clutterbuck	5	1 0	165	30·07	169
Faringdon (The Elms)	W. Dundas, Esq.	5	1 0	340 T	32·10	190

DIVISION III.—SOUTH MIDLAND COUNTIES.

HERTS.						
D Southgate (The Lawns).....	G. A. Church, Esq. ...	5	0 6	240 T	29·59	205
D† Rickmansworth (Moor Park)... ..	Rt. Hon. Lord Ebury ..	5	2 0	340	35·70	198
D Elstree (Aldenham House)	Mr. E. Beckett	10	4 9	...	27·04	184
D Watford (Kytes)	Mrs. Horsman	5	1 0	239	28·87	181
D ,, (Oaklands)	E. Harrison, Esq.	5	5 6	273	32·69	203
Barnet (Gas Works)	J. Hopkinson, Esq. ...	8	0 9	212	27·10	160
D Cheshunt Old Nurseries.....	Messrs. Paul & Son ...	5	1 0	92 T	28·37	169
D ,, College	Rev. Dr. Reynolds.....	5	1 1	94	27·05	153
D Broxbourne (Stafford House) ...	G. J. Newbery, Esq....	5	1 0	118 T	28·18	210
D Hemel Hempstead (Nash Mills)..	Messrs. J Dickinson & Co.	12	3 9	237 T	31·65	194
D ,, ,, (Apsley Mills)	,, ,, ,, ...	24	0 9	260	31·75	186
D St. Albans (The Grange)	J. Hopkinson, Esq. ...	5	1 0	380 ⅄	31·13	201
,, (Torrington House) M	Miss E. A. Ormerod ...	5	1 0	271 T	30·38	...
,, (,, ,,) M	,, ,, ,, ...	5	1 0	271 T	30·04	...
† ,, (Gorhambury).....	Rt. Hon. Earl Verulam	6	2 6	425 T	*33·32*	...
D Great Berkhampstead (Rosebank)	E. Mawley, Esq.	8	1 0	401 ⅄	31·52	196
,, ,, (,,) M	,, ,, ...	8	1 0	401 ⅄	31·22	...
D ,, ,, (Fairhill)...	W. B. Hopkins, Esq...	5	1 0	550 T	33·28	204
D ,, ,, (Gt. Gaddesden)	Rev. W. Tyrwhitt Drake	8	1 0	426 ⅄	31·89	187
Hoddesdon (Fieldes Weir)	Major Lamorock Flower	8	...	..	25·13	...
Hertford (Bayfordbury)	W. C. Baker, Esq.....	8	1 2	250	28·20	194
D ,, (Marden Hill, Tewin).	R. L. Hoare, Esq.....	5	0 6	251 T	27·34	150
D Tring Vicarage	Rev. W. Quennell	5	1 0	442 T	33·04	189
,, (Pendley Manor)	,, ,, ...	...	...	...	31·71	...
D ,, (Cowroast)	H. Thomas, Esq., C.E.	5	4 2	345 L	32·02	157
Harpenden (Rothamstead)	Messrs. Lawes & Gilbert	5	0 9	420 T	30·83	182
,, (,,)	,, ,, ,, ...	8	0 9	420 T	30·49	173
D ,, (,,)	,, ,, ,, ..	72x87	0 9	420 T	31·86	200
D Welwyn (Brocket Hall)	Mr. T. Landon	8	1 0	250	28·64	169
D Ware (Red House).....	J. Francis, Esq., C.E..	12	3 0	114 T	26·46	168
D ,, (Fanham's Hall)	Miss Joyce Croft	8	1 0	253 T	26·21	181
D Welwyn Rectory	Rev. Canon Wingfield.	5	0 4	228 T	30·45	169
,, (Danesbury)	A. M. Blake, Esq.	5	0 9	405 T	29·82	181
D ,, (Datchworth Rectory)..	Rev. J. Wardale	5	1 0	386 T	26·93	176
D Ware (Much Hadham)	T. W. Mott, Esq.	5	1 0	222 B	29·20	177
D Kensworth [Dunstable]	Miss Jones	5	1 0	630 B	33·61	187
D Bennington Lodge..... ..	Rev. Dr. Parker.....	5	1 0	408 ⅄	27·23	205
D Buntingford (Hamels Park).....	Mr. E. Wallis	5	1 0	400 T	27·34	175
†Hitchin (Wratten).....	W. Lucas, Esq.	5	2 1	238 ⅄	27·26	192

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
HERTS.—(*con.*)						
D Hitchin (The Maples)	W. Hill, Esq.	8	1 1	220 T	28·11	191
,, (Bancroft)	L. W. Gatward, Esq.	5	2 0	215	29·10	196
D ,, (Bedford Road)	F. Ransom, Esq.	5	0 10	220 T	28·29	225
,, (High Down)	J. Pollard, Esq.	5	1 1	422 ⅄	28·92	196
D Buntingford (Throcking Rectory)	Rev. C. W. Harvey	5	1 0	484 T	26·64	212
D ,, (Hyde Hall)	A. E. Morse, Esq.	...	0 10	430	25·67	179
D Royston (Therfield Rectory)	Rev. J. G. Hale	5	4 3	500 ?	30·60	197
D† ,,	H. Wortham, Esq.	8	0 6	269 ⅄	25·94	170
BUCKINGHAMSHIRE.						
D Slough (Langley)	R. H. Major, Esq.	8	0 10	85 T	27·73	171
D ,, (Upton)	G. Bentley, Esq.	5	3 0	90 ⅄	24·92	164
,, (,,)	,, ,, ,,	8	...	...	25·18	...
D Taplow Court	Mr. W. Williams	8	1 0	217 T	27·26	164
Burnham (The Elms)	G. J. Williams, Esq.	5	3 0	182	27·09	158
Greenlands [Henley-on-Thames]	Hon. F. Smith, M.P.	8	1 3	116	37·34	140
D Great Marlow	J. Ford, Esq.	8	1 3	...	37·86	171
High Wycombe	H. S. Wheeler, Esq.	8	0 9	253 ⅄	30·35	...
D Wendover (Halton Gardens)	Mr. Sanders	5	2 0	400	40·35	177
Aylesbury (New Road)	J. Copcutt, Esq.	12	1 0	280 T	32·70	...
,, (Waddesdon)	Mr. J. Jaques	8	1 0	364	30·84	160
,, (Mentmore)	J. Smith, Esq.	5	1 6	...	29·02	...
D† Winslow (Addington Manor)	Rt. Hon. Lord Addington	8	1 0	309 ⅄	29·55	191
D† Buckingham (Adstock)	J. E. S. Weston, Esq.	5	0 9	350 T	30·31	184
D Stony Stratford (Thornton)	Mr. W. Sturdy	5	1 6	...	32·40	182
Woburn Sands (Sandymount)	C. P. Stuart, Esq.	5	1 4	...	31·38	186
D Newport Pagnell	R. Littleboy, Esq.	5	2 0	196 T	27·72	162
Olney (Filgrave Rectory)	Rev. J. Tarver	8	0 8	280	28·39	...
OXFORD.						
D Whitchurch Rectory	Rev. J. Slatter	10	1 0	150 ⅄	30·45	178
D Caversham (Kidmore Grange)	M. J. Sutton, Esq.	5	1 0	305	30·23	164
Henley-on-Thames (Greys)	Rev. N. Pinder	5	2 6	370 T	32·26	...
D ,, ,, ,, (Assenton)	Mr. J. Ratty	5	1 0	281	33·54	169
D Dorchester	Col. Blunt	5	0 6	169	28·27	186
D Abingdon (Culham)	Rev. F. C. Clutterbuck	5	1 0	200 ⅄	29·30	186
D Watlington (Pyrton Manor)	Cecil Hamersley, Esq.	5	1 0	321 T	31·80	182
D Abingdon (Nuneham Park)	A. Harcourt, Esq.	8	3 0	280 T	28·79	215
D Oxford (Potlands, Baldon)	Miss Clinkard	5	1 0	288	29·15	195
D† ,, (Mag. Coll. Laboratory)	E. Chapman, Esq.	5	1 0	186 ⅄	26·57	179
,, (,, ,, ,,)	,, ,, ,,	5	33 11	223 ⅄	24·13	...
,, (Radcliffe Observatory)	E. J. Stone, Esq., F.R.S.	8	1 8	210 ⅄	27·47	185
D ,, (,, ,,)	,, ,, ,,	11	2 4	210 ⅄	28·37	171
,, (,, ,,)	,, ,, ,,	10	22 0	230 ⅄	27·05	170
,, (,, ,,)	,, ,, ,,	10	112 0	320 ⅄	18·66	169
D ,, (St. Giles')	A. R. Tawney, Esq.	8	1 6	211 ⅄	29·06	192
D ,, (Norham Road)	Rev. C. B. Mount	10	1 2	220 ?	27·99	172
D ,, (Headington Hill)	Miss Davenport	5	0 4	354	28·81	156

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge: Diameter	Rain Gauge: Height Above Ground	Rain Gauge: Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	OXFORD—(*con.*)						
D	Oxford (Elsfield).....*New gauge*	H. Parsons, Esq.	5	1 0	330	29·63	201
	Stanton St. John's...	Miss Thomson.....	8	1 0	340	29·72	196
	,, ,, ,, (Woodperry)..	J. Thomson, Esq.	6	1 0	399 T	29·35	201
	Chipping Norton (Kingham).....	E. Lockwood, Esq. ...	5	4 0	442	29·98	...
D	Bicester (Middleton Park)	Mr. B. Hope	5	2 6	380	30·85	170
	,, (Stratton Audley Pk.)...	Colonel Gosling	5	2 4	...	26·81	169
	Steeple Aston.....	B. S. Ogle, Esq.	5	0 5	400 T	31·30	205
D	,, ,, (The Grange).....	Adl. Bradshaw, C.B....	8	1 0	400 T	28·50	180
D	Banbury (Bloxham Grove)	Rev. G. Warriner	8	3 10	387 ⊼	29·08	170
D	,, (,,)	Col. O. Ommanney ...	8	3 0	400 T	29·21	186
D	,, (Sibford Ferris)	J. Lamb, Esq.	5	1 0	590 ⊼	31·47	198
D	,, (Cotefield, Bodicote) ...	T. E. Cobb, Esq.	8	2 0	383 ⊼	28·84	172
D	,, (Ark House School) ...	A. J. Beale, Esq.	5	1 0	310	26·97	191
	NORTHAMPTON.						
	Brackley (Market Place)	Messrs. Durran & Smith	8	6 10	400 T	29·75	159
	,, (East Hill)	C. A. Markham, Esq...	...	...	...	28·78	201
D	Grimsbury [Banbury]	W. E. Wood, Esq.....	5	1 3	320 T	27·05	166
	Thorpe Mandeville [Banbury]...	Mr. S. Baines.....	5	1 0	530	29·47	160
D	Towcester (Whittlebury)	W. S. Miller, Esq.....	5	1 6	350	33·48	213
D	,, ...	P. Phipps, Esq.	5	1 0	290	30·42	157
	,, (Easton Neston)	Mr. E. Slarke.....	8	1 0	340 T	33·80	175
D	Stoke Bruerne Rectory.....	Rev. W. Wilson.....	8	1 0	320 T	28·31	174
	Blisworth	C. A. Markham, Esq...	...	...	...	29·16	...
D	Litchborough.....	E. Grant, Esq.	5	1 1	500	35·78	200
D	Daventry (Fawsley)	Lady Knightley	5	1 0	477 T	29·47	202
D	Easton Maudit Vicarage	Rev. H. A. Boys.....	8	1 0	250?	29·23	199
	Castle Ashby	R. G. Scriven, Esq. ...	5	1 0	263 ⊼	29·67	199
D	Northampton (Little Houghton).	Mr. J. Brawn.....	5	2 4	...	27·28	184
D	,, (Hazlewood Road)	H. Terry, Esq.	5	5 0	253	24·25	158
D	,, (Gold Street)	Mr. S. Law.....	5	6 6	230 ⊼	25·98	177
	,, (Elysium Terrace).	C. A. Markham, Esq...	...	...	...	26·76	189
D	,, (Pytchley Street)..	Mr. E. Ball	5	1 6	270	26·00	183
D	Great Brington (Althorp House)	C. S. Groom, Esq.	8	3 10	310 ⊼	28·35	192
	,, ,, ...	C. A. Markham, Esq....	...	...	..	27·32	173
D	Pitsford (Sedgebrooke)	,, ,, ,, ...	5	1 0	311 ⊼	29·06	182
	,, (,,) .....M	,, ,, ,, ...	5	1 0	311 ⊼	28·92	...
D	Daventry (Waterloo).....	F. F. Rodhouse, Esq...	5	1 3	436 ⊼	31·09	195
D	Earls Barton Vicarage	Rev. R. R. Cobbold ...	5	1 4	280 T	26·02	206
D	Holdenby Rectory.....	Mr. C. Bond	5	1 6	...	30·14	194
D	Wellingborough (Swanspool) ...	N. P. Sharman, Esq. ...	5	0 2	155	28·36	196
D	,, (Croyland Abbey)	E. Sharman, Esq.	5	0 3	...	28·62	192
	Thrapstone (Hargrave)	Rev. R. S. Baker	5	1 0	220 ⊼	29·34	...
D	Ravensthorpe (Coton Mill)	G. S. Eunson, Esq. ...	5	1 0	355	28·21	178
	Hazelbeach.....	C. A. Markham, Esq...	5	3 0	566 T	33·35	174
	Kettering (Montague Street) ...	,, ,, ,, ...	8	1 3	300 T	31·82	187
D	,, ...	C. W. Lane, Esq.	5	1 0	280	32·18	192
	Welford (Salford House)	J. Gee, Esq.	5	1 3	...	30·51	186

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	NORTHAMPTON—(*con.*)						
	Rothwell	J. More, Esq., M.D.	1	1 2	300	30·03	187
	Oundle	J. M. Siddons, Esq.	5	4 6	105 T	25·26	151
	Rockingham Castle	Mr. H. Watt	5	3 0	400 L	28·28	...
	Wansford (Apethorpe Lodge)	A. Jolly, Esq.	...	...	...	25·96	...
	Peterborough (Thorpe Hall)	Col. C. I. Strong	...	...	...	23·90	...
	,, (Infirmary)	Dr. A. F. R. Platt	5	1 0	...	22·94	...
D	Easton [Stamford]	Mr. H. Watkins	5	0 9	271 T	*24·73*	170
D	Maxey Vic. [Market Deeping]	Rev. W. D. Sweeting	5	1 0	32 ⅄	22·97	212
	,, ,, [,, ,,] M	,, ,, ,,	5	1 0	32 ⅄	22·60	...
	HUNTS.						
D	St. Neots (Waresley Park)	Lady C. Duncombe	5	0 11	190	31·49	165
D	Huntingdon (Brampton)	Miss May Bird	5	1 1	...	28·93	182
	Kimbolton (Covington Rectory)	G. F. Watson, Esq.	5	1 0	...	31·43	167
D	Alconbury	Rev. R. Conway	5	1 0	...	24·48	173
	Whittlesea Mere	A. Lunn, Esq.	8	1 6	...	24·93	192
	BEDFORD.						
	Luton (Pumping Station)	E. J. Lovegrove, Esq., C.E.	5	1 0	344 T	29·78	198
	Ampthill (Silsoe)	H. Trethewy, Esq.	5	1 0	214 T	30·02	179
	,, (Wrest Park)	Mr. G. Ford	5	1 1	...	29·82	...
D†	Aspley Guise (Oaklands)	E. E. Dymond, Esq.	5	1 0	410 T	29·17	180
	Woburn (Crawley Farm)	A. E. Elliott, Esq.	5	3 9	300	27·87	131
D	Stotfold [Baldock]	Dr. Swain	5	1 0	220 T	28·58	194
	Ampthill	Mr. J. Brown	5	1 0	313 T	28·93	183
	,, (Maulden)	Mr. S. Street	6	2 0	...	26·04	...
D	Woburn (Hulcote Rectory)	Rev. B. Chernocke Smith	5	1 0	310	29·67	162
	Biggleswade (Langford)	F. J. Gurney, Esq.	5	1 0	112 T	25·30	140
	,, (Old Warden)	Mr. G. R. Allis	8	1 2	...	28·46	188
D	,, (Brooke House)	R. F. Conder, Esq.	5	1 0	103	27·56	165
D	Potton (Wrestlingworth)	H. J. King, Esq.	5	1 0	...	27·20	183
	,, (Vicarage)	Rev. G. E. Gwynne	5	0 10	145	25·55	...
D	Sandy (The Lodge)	Rt. Hn. A. W. Peel, M.P.	5	1 0	...	29·44	179
	Bedford (Western Street)	D. Robie, Esq.	5	0 10	112 T	24·59	179
	,, (The Grove)	W. B. Graham, Esq.	5	0 8	115	24·48	182
	,, (St. Peter's Street)	Mr. W. Godfrey	5	1 0	114 T	24·99	...
	Tempsford Hall	Col. W. Stuart	5	0 9	80 T	25·89	185
	Bedford (Milton Ernest)	F. Newbery, Esq.	5	5 0	137 ⅄	27·00	...
	CAMBRIDGE.						
D†	Guilden Morden [Royston]	J. G. Johnson, Esq.	5	1 2	106 ⅄	25·28	170
	Abington Pigotts [,,]	H. F. Fryer, Esq.	...	0 8	130	26·45	176
	Trumpington	F. Parsons, Esq.	6	1 0	...	29·81	189
	,, (Gilmerton)	S. Nutter, Esq.	8	0 9	...	26·31	205
	Granchester Mill	H. F. Fryer, Esq.	5	5 0	31 ⅄	26·84	171
D	Cambridge (Fulbourn Asylum)	Dr. G. E. Crallan	5	0 10	70 ⅄	? 33·60	149
	,, (W. W. Cherryhinton)	W. W. Gray, Esq., C.E.	5	1 0	35 ⅄	26·66	215
D	,, (Sidney Street)	W. E. Pain, Esq.	8	60 0	92 ⅄	24·00	211

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1891 inches.	Days on which .01 or more fell.
CAMBRIDGE—(*con.*)							
Cambridge (Trinity College) ...	Dr. J. W. Glaisher, FRS.	8	4	0	40	26·28	196
Hardwicke	Rev. J. S. Brown	5	0	7	...	32·10	167
D† Cambridge Observatory.....	Mr. Todd	5	1	0	84 ⇈	26·16	187
D ,, ,, ...	,, ,, ...	8	1	0	84 ⇈	25·93	187
Quy Hall	Mrs. Francis	5	0	5	61	25·91	173
Papworth Hall	H. F. Fryer, Esq.	5	1	0	158	29·51	190
D Ely (Stretham)	Mr. J. Housley	9	4	9	13 ⇈	29·10	171
D ,, (,, Ferry)	Mr. C. Wright, Junr....	8	5	0	...	25·98	175
Mepal Engine.....	H. F. Fryer, Esq.	...	20	6	25	20·48	142
Littleport (Highfield House) ...	H. G. Martin, Esq. ...	8	3	0	67	23·43	182
Chatteris (Aylesby House)	A. H. Ruston, Esq. ...	8	0	6	45 ?	27·30	149
D ,, (The Priory)	H. F. Fryer, Esq.....	5	0	6	45	27·76	143
,, (Horseway Lock)	A. Lunn, Esq.	8	15	0	...	19·51	165
March	,, ,, ...	9	2	0	...	26·51	149
Stanground Sluice	,, ,, ...	8	1	6	..	22·46	...
* March (Stags Holt)	W. C. Little, Esq.....	5	1	0	11 ↾	25·63	...
Upwell (Marmont Priory Lock)..	A. Lunn, Esq.	8	1	1	...	25·22	182
,, (Euximoor House)	H. West, jun., Esq. ...	5	0	8	15 ?	25·94	160
D Thorney (Wryde House)	S. M. Egar, Esq.	5	1	0	11 ↿	25·27	151
D Wisbech (Bank House).....	A. Peckover, Esq.	8	0	8	6	25·36	171

DIVISION IV.—EASTERN COUNTIES.

ESSEX.							
D Shoeburyness	The Asst. Super. Expts.	5	7	3	18	16·23	141
West Ham (Abbey Mills)..... ...	A. R. Binnie, Esq., C.E.	8	1	0	11 ⇈	25·98	170
D Southend (Water Works).....	C. S. Bilham, Esq. ...	8	1	0	112 ⇈	19·01	160
D Romford (North Ockenden)	Rev. R. T. Crawley ...	5	1	3	100	23·41	159
,, (Bulvan).....	E. D. Mee, Esq.....	5	4	0	37	22·18	...
Ilford (Great Gearies)	Mr. J. Douglas	5	1	0	120	19·63	...
D Upminster Hall	G. P. Hope, Esq.	5	1	0	120	25·20	200
D Walthamstow (Forest Road).....	F. W. Freir, Esq.	5	1	0	70 ↾	29·36	167
Woodford (Brancepeth House)...	Albert Spicer, Esq. M.P.	5	1	0	...	25·45	...
D ,, (The Harts)	Miss Spicer.....	5	3	6	203 ↾	27·92	190
,, (Hagger Lane)	W. B. Bryan, Esq., C.E..	8	1	0	176 ⇈	24·29	154
D Billericay (Burghstead Lodge)...	General Branfill.....	5	1	0	310 ⇈	22·24	184
D Havering	Mrs. Pemberton-Barnes	...	...		...	23·22	192
D Brentwood (Dudbrook House) ...	Mr. W. Dellar	8	1	3	...	27·90	143
Loughton (High Beech)	W. B. Bryan, Esq., C.E.	8	1	0	376 ⇈	27·79	180
Maldon (Norton Hall)	C. Clarke, Esq.	5	2	6	130 ↾	21·67	134
Waltham Abbey.....	W. B. Bryan, Esq., C.E.	8	1	0	62 ↾	27·19	196
,, ,, (Gunpr Factory)	The Superintendent ...	5	1	6	70	25·74	...
Epping (The Hemnalls)	J. Nicholl, Esq.	8	0	8	345	35·70	158
D Bradwell-on-Sea (Bradwell Hall)	J. C. Chillingworth, Esq.	5	1	1	27	22·00	132
,, ,, (Down Hall) ...	R. Page, Esq.....	5	1	0	20	22·72	...
D Chelmsford (Writtle).....	E. Rosling, Esq.	5	0	9	140 ↾	20·06	156
,, (High Street).....	F. Chancellor, Esq. ...	8	1	0	86 ⇈	21·53	147
,, ...	The Royal Meteor. Soc.	5	1	0	135	22·73	181

DIVISION IV.—EASTERN COUNTIES—(*continued.*)

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	ESSEX—(*con.*)						
	Chelmsford (Roxwell)	R. W. Christy, Esq.	5	1 0	180 T	21·50	119
	,, (Broomfield)	W. Impey, Esq.	5	1 4	144 T	21·31	...
D	West Mersea (Rosebank)	Rev. F. Owston	5	1 0	35	20·46	175
D	East Mersea Rectory	Rev. F. J. Ball	5	1 0	56 T	22·26	228
D	Harlow (Moor Hall)	Mr. W. Monk	5	1 3	240	26·80	145
D	,, (Sheering)	Rev. Canon Hill	5	1 0	214 ⊼	26·03	228
	Witham (Little Braxted Hall)	J. Taber, Esq.	5	1 0	50	23·47	169
	,, (Rivenhall)	Rev. F. Bridges	5	1 0	138 T	24·86	...
	Great Bentley (The Lodge)	Miss Delf	6	0 6	150	20·31	...
D	Birchanger [Bishops Stortford]	Rev. F. Rowden	8	0 11	329 T	26·85	181
	Colchester (Surrey Villa)	J. C. Hopwood, Esq.	5	1 0	108 T	24·75	157
D	,, (Hill House, Lexden)	S. F. Hurnard, Esq.	5	1 0	90 T	21·77	171
D	,, (,, ,,)	,, ,,	5	0 4	90 T	22·39	175
	Braintree (Bocking, Fennes)	H. S. Tabor, Esq.	5	1 3	240 T	24·63	172
	,, (,, Place)	S. Courtauld, Esq.	8	2 2	212 ⊼	24·58	140
	Dunmow (Saling Grove)	Capt. J. Nicolls Harrison.	8	0 8	290 ⊼	22·94	...
	Earls Colne (Chalkney House)	H. F. Hills, Esq.	5	1 0	180 T	25·12	131
D	Dedham (The Rookery)	W. H. Penrose, Esq.	8	1 6	43	21·55	190
	Langham Rectory	Rev. T. S. Raffles	5	1 0	134	22·04	171
D	Saffron Walden (Newport)	Rev. G. F. Tamplin	5	1 2	106	28·37	183
	SUFFOLK.						
	Felixstowe	C. G. Havell, Esq.	8	1 0	65	21·99	190
	Sudbury (Assington)	P. Gurdon, Esq.	5	4 0	...	21·39	186
D	Ipswich (Woolverstone Park)	C. H. Berners, Esq.	8	4 0	100	19·98	166
D	,, (Orwell Park)	Mr. J. Wallis	8	1 0	60 ⊼	24·47	188
D	,, (Belstead Hall)	A. Harwood, Esq.	8	0 9	120 T	21·69	148
D	Sudbury (Friars Street)	E. Ransom, Esq.	5	1 7	93 T	22·20	188
D	,, (Newton Road)	J. Alexander, Esq.	5	1 2	130 T	21·32	175
	Ipswich (Bishop's Hill)	G. A. Biddell, Esq., C.E.	5	1 0	104 ⊼	23·26	...
D	,, (Clare Lodge)	E. R. Turner, Esq., C.E.	5	1 0	178 T	25·47	186
	Lavenham Hall	W. Biddell, Esq.	5	1 11	220	23·16	127
D	Woodbridge (Bank House)	S. Alexander, Esq.	5	1 0	...	25·22	189
D	,, (Co. Asylum Melton)	Dr. Eager	8	1 4	100 ⊼	21·60	158
D	,, (The Cedars, Melton)	W. P. T. Phillips, Esq.	5	...	...	25·99	182
D	Lavenham (Preston Rectory)	Rev. T. Hewitt	5	1 9	300 T	27·39	136
D	Rendlesham Hall	Rt Hon Lrd. Rendlesham	5	1 9	88 ⊼	24·61	151
D	Haverhill (Great Thurlow)	A. Boa, Esq.	5	1 0	241 T	24·18	170
	Clare (Stansfield)	J. Slater, Esq.	5	1 0	...	28·47	...
D	,, (Hawkedon Rectory)	Rev. B. P. Oakes	5	3 4	305 ⊼	26·39	210
	Ash Bocking Vicarage	Rev. M. B. Cowell	5	7 3	231 T	20·63	151
D	Aldborough (Aldringham Ho.)	F. Garrett, Esq.	8	4 5	50 B	22·73	197
D	Stowmarket (Wetherden Rec.)	late Rev. C. J. Goodhart	8	0 6	185 ⊼	22·01	167
D	Bury St. Edmunds (Drinkstone Pk)	Mr. G. Palmer	8	1 2	220 T	23·12	185
D	Framlingham (Mount Pleasant)	Mr. R. Whitehead	5	3 0	...	23·31	156
D	Bury St. Edmunds (Abbeygate St.)	Mr. F. Summers	5	65 0	...	19·80	167
D	,, ,, (Westley) *new g*	R. Burrell, Esq.	5	1 0	226 ⊼	25·53	167
	,, ,, (Hengrave)	Mr. W. Nichol	5	1 2	91	23·21	...

DIVISION IV.—EASTERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
SUFFOLK—(*con.*)						
D Ixworth (Walsham-le-Willows).	Miss M. C. Martineau..	5	1 0	...	26·57	186
† ,, (Barningham)	W. Lingwood, Esq. ...	8	1 0	136 T	22·96	...
D Kessingland	Rev. E. L. Puxley.....	5	0 5	20	22·32	201
D Beccles (Sotterley Hall Gardens).	Col. St. J. Barne	5	0 10	...	26·16	207
,, (The Staith)	Clifford Smith, Esq. ...	5	4 6	...	23·56	...
†Lowestoft (Carlton Colville).....	G. Edwards, Esq., C.E.	8	0 9	6 T	25·35	...
D ,, (Kirkley)	Mr. C. McMath	5	1 0	58 ⅄	24·62	208
D ,, (Bryn-y-Môr)	S. H. Miller, Esq.	5	1 0	86	25·61	192
,, (,, ,,) .....M	,, ,, ,, ...	8	1 0	86	25·05	...
,, (The Clyffe, Corton)...	J.J.Colman, Esq., M.P.	5	4 0	65 L	25·48	...
D ,, (,, ,,)*new g.*	,, ,, ,, ...	5	1 0	62	24·71	181
,, (Somerleyton Rect.)...	The Royal Meteor. Soc.	8	1 0	50	25·16	195
D Yarmouth (Belton)	Miss A. P. Howes	5	0 8	15 T	23·25	191
NORFOLK.						
Scole Rectory.....	Rev. F. Page Roberts..	5	1 0	90	24·22	153
D Diss.....	T. E. Amyot, Esq.....	5	1 0	96	25·43	195
D Harleston (Rushall Vicarage) ...	Rev. C. Gape	5	1 1	117 ⅄	24·78	185
D North Lopham	Mrs. Pitt.....	8	1 2	...	23·80	190
D Brandon (Santon)	Rev. Canon Du Port ...	...	' ..	...	26·29	191
D†Geldeston [Beccles]	E. T. Dowson, Esq. ...	5	1 0	38 ⅄	24·29	201
,, [,,] .....M	,, ,, ,, ...	8	1 0	38 ⅄	24·31	...
D ,, [,,]	R. Dashwood, Esq.....	5	1 0	45 T	23·81	180
Ellingham [,,]	H. Youngman, Esq. ...	5	3 0	...	23·86	...
D Loddon (Bergh Apton)	Rev. T. F. Lloyd	8	2 4	...	28·71	179
D Wymondham.....	E. B. Pomeroy, Esq....	8	1 3	118 ⅄	28·22	201
Watton	Rev. Canon Du Port ...	...	...	...	27·07	...
D Hingham	,, ,, ,, ...	...	...	...	28·88	183
D Denver	,, ,, ,, ...	8	1 0	80 ⅄	27·26	184
D Stoke Ferry (Wereham)	,, ,, ,, ...	5	6 0	66	26·36	174
Wymondham (Hethersett)	,, ,, ,, ...	...	...	...	29·60	...
D Downham (Crimplesham).....	W. S. Horn, Esq.....	5	1 0	110 T	25·74	187
Swaffham (Pickenham Hall) ...	H. Applewhaite Esq....	5	1 0	104 ⅄	30·97	213
Outwell Sluice	A. Lunn, Esq.	9	...	16	24·81	148
Yarmouth (Sailors' Home)	The Meteor. Council ...	8	4 0	12	24·19	201
D ,, (Market Place).....	W. C. Steward, Esq...	5	1 0	...	28·19	183
,, (Halvergate Hall) ...	Rev. Canon Du Port ...	5	3 3	48 ⅄	25·26	...
Norwich (Postwick)	,, ,, ,, ...	...	...	...	25·74	...
D ,, (Carrow House)	J. J. Colman, Esq., M.P.	5	2 0	35 ⅄	26·01	127
† ,, (Thorpe High House)...	W. Birkbeck, Esq. ...	5	1 0	137 T	25·53	190
D ,, (Essex Street)	F. Dix, Esq.	9	2 6	85 T	26·96	178
D ,, (Newmarket Road)	Rev. Canon Du Port...	...	...	...	28·16	210
,, (Heigham)	,, ,, ,, ...	5	3 2	37 ⅄	26·55	...
D Blofield	A. W. Preston, Esq....	5	1 0	50 T	28·35	210
†Acle Rectory	Rev. R. W. Kennion...	8	0 9	40	26·10	...
,, ...	Rev. Canon Du Port ...	...	...	...	28·09	...
D*Swaffham (Grammar School) ...	C. J. Drury, Esq.	5	1 10	242 ⅄	27·37	184
D ,, ... *new gauge*	W. H. Plowright, Esq.	5	5 0	250 ⅄	27·42	186

DIVISION IV.—EASTERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above SeaLevel	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
NORFOLK—(*con.*)						
D Costessey	A. J. Culley, Esq.	5	1 0	...	25·93	171
D Sprowston (Oak Lodge)	T. Cozens Hardy, Esq.	5	1 0	101 ⅄	25·99	204
D South Walsham	J. E. T. Pollard, Esq.	5	3 3	...	27·59	204
East Dereham	G. H. Cooper, Esq. ...	8	3 0	161	27·83	155
Drayton	Rev. Canon Du Port ...	5	1 2	...	25·99	...
D Swaffham (Dunham)	,, ,, ,, ...	5	1 1	320	30·74	203
Salhouse	,, ,, ,, ...	...	...	...	26·67	...
Wiggenhall (Outlet Syphons)	A. Lunn, Esq.	8	1 6	...	24·15	160
D TilneySt.Lawrence(AylmerHall)	W. B. Parsons, Esq.	8	1 0	9	23·84	175
D Terrington	J.T.Seccombe,Esq,M.D	5	1 0	15 ⅄	23·87	188
Felthorpe	Mrs. Bourchier	5	1 1	75	27·64	...
D Bylaugh Park Gardens	Mr. A. Fenn	5	1 0	130 T	31·31	211
D Reepham (Whitwell)	Rev. W. H. Freeman...	8	2 6	120	29·25	186
Cawston	Rev. T. H. Marsh	5	1 0	135 T	29·39	208
Aylsham (Woodgate)	B. J. W. Purdy, Esq..	5	1 0	100 T	30·94	188
D North Walsham (Dilham)	Rev. Canon Du Port ...	...	...	...	26·22	220
D ,, ,, (Worstead)	R. Cross, Esq.	8	1 0	...	27·17	178
Hillington (Rectory)	Rev. H. Ffolkes	8	1 0	89 ⅄	29·03	213
D† ,, School	,, ,, ,,	5	3 6	94 ⅄	28·91	212
D Fakenham (Pensthorpe)	Rev. Canon Du Port ...	...	...	...	27·42	166
D ,, (Croxton)	,, ,, ,, ...	..	...	...	25·86	180
Dersingham	Rev. E. W. Penny	5	1 0	85	25·51	...
Fakenham (Cranmer Hall)	Sir L. Jones, Bart.	5	1 0	144	29·82	217
D Cromer (Northrepps)	Rev. Canon Du Port ...	...	..	...	27·55	153
Holt (Letheringsett Hall)	W. Cozens Hardy, Esq.	8	1 0	...	29·46	147
D ,, Lodge	Rev. Canon Du Port ...	...	...	...	31·75	183
D Field Dalling	,, ,, ,, ...	...	...	...	27·55	171
Holkham	J. Davidson, Esq.	12	4 0	39	23·67	...
Hunstanton Hall	Mr. Nisbet	11	3 8	60 ⅄	26·40	...

DIVISION V.—SOUTH WESTERN COUNTIES.

WILTS.						
D Larmer Grounds [Shaftesbury]	GeneralPittRivers,FRS	5	3 0	500 T	44·33	180
D Rushmore [Shaftesbury]	,, ,, ,, ...	5	3 0	500 T	45·48	196
D Landford	J. R. Wigram, Esq. ...	5	1 10	167 ⅄	39·13	192
D Donhead St. Mary (Charlton Ho.)	Col. G. Best	5	0 7	514	45·27	194
Broad Chalke	H. P. Dixon, Esq.	8	0 8	315	37·24	171
D†Salisbury (Alderbury)	Rev. R. S. Hutchings...	5	0 8	263 ⅄	35·68	174
D† ,, (West Dean)	Rev. W. L. W. Eyre...	5	1 0	137 B	34·90	198
,, (Britford)	H. P. Dixon, Esq.	5	1 0	...	39·43	180
,, (Wilton House)	,, ,, ,, ...	8	0 5	180 ⅄	38·35	193
Mere	,, ,, ,, ...	5	1 0	...	42·74	186
D ,, Down	T. H. Baker, Esq.	5	1 0	702 T	43·62	216
Winterslow	H. P. Dixon, Esq.	5	1 0	470	38·21	173
Maiden Bradley	,, ,, ,, ..	...	...	...	48·93	187
Warminster (Rye Hill)	,, ,, ,, ...	8	2 0	450	45·43	208

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	WILTS—(*con.*)						
	Amesbury	H. P. Dixon, Esq.	5	1 0	...	32·84	178
	Salisbury Plain (Chitterne House)	R. Hayward, Esq.	11	4 0	319 T	36·69	189
D	Warminster (Bugley Reformat'y)	Mr. W. F. Harold	5	5 0	570	39·11	191
D	,, (Downside)	Mrs. Stent	8	2 3	393	40·08	201
	Amesbury (Figheldean)	H. P. Dixon, Esq.	5	1 0	260 T	36·78	184
	Ludgershall	Rev. W. H. Awdry	8	0 8	422 ⅄	37·06	199
	,, (Everleigh)	H. P. Dixon, Esq.	5	1 2	590	39·82	200
D	,, (Conholt Park)	Lady C. Wellesley	5	1 0	750 T	39·17	197
D	,, (Collingbourne Kingston)	Baldwin Latham Esq CE	5	1 0	470 ⅄	36·19	183
	Market Lavington	H. P. Dixon, Esq.	...	...	...	31·81	154
	Trowbridge (Steeple Ashton Vic.)	,, ,, ,,	5	1 0	240 T	33·90	219
D	,, (Wingfield)	T. H. Clark, Esq.	5	1 0	190 T	35·09	181
D	,, (Rodney House)	W. J. Mann, Esq.	5	1 1	140	33·12	187
	Bradford (Westbury Ho.)	H. P. Dixon, Esq.	5	1 2	100 T	34·64	178
	,, (Holt)	,, ,, ,,	...	...	...	33·14	197
	Devizes (Southgate House)	Miss Cunnington	8	1 0	436 T	35·37	179
D	,, (Wilts Co. Asylum)	Dr. Ireland Bowes	8	2 3	385 ⅄	34·23	197
	Buttermere	H. P. Dixon, Esq.	5	4 9	...	40·60	211
	Burbage (Wolfhall)	,, ,, ,,	8	1 0	546	35·99	150
	Shalbourne	,, ,, ,,	5	1 0	...	37·82	173
D	Bishop's Cannings	Rev. C. W. Hony	5	1 0	446 ⅄	34·82	198
	Devizes (Shepherd's Shore)	H. P. Dixon, Esq.	5	1 6	555	36·16	188
D	Chippenham (Lacock)	Miss Awdry	5	0 11	250	35·63	196
	Marlborough (Preshute House)	H. P. Dixon, Esq.	...	...	...	38·65	191
	,,	The Royal Meteor. Soc.	5	1 0	424	37·39	201
D	,, (Mildenhall)	Rev. C. Soames	5	1 0	456	34·76	164
	Corsham	H. P. Dixon, Esq.	5	1 0	350?	36·88	186
D	Calne (High Street)	Mr. H. Wilkins	5	3 6	244	34·74	228
D	,, (Compton Bassett)	Mr. W. A. Cook	8	1 0	395 T	38·59	190
	Ramsbury	H. P. Dixon, Esq.	5	1 0	411	33·78	187
	Ogbourne Maizy	,, ,, ,,	5	1 0	...	35·72	167
D	Broad Hinton	Rev. Vere Awdry	5	1 1	633 T	*38·11*	229
	Wootton Bassett	H. P. Dixon, Esq.	5	1 0	...	34·96	191
D†	Swindon, New	F. G. O'Conor, Esq.	8	0 11	378	33·45	189
	,, (Pen Hill)	H. Arkell, Esq.	5	0 10	400	30·84	...
	Malmesbury (The Priory)	A. W. Chubb, Esq.	5	2 6	...	40·01	160
	,, (Charlton Cott.)	H. P. Dixon, Esq.	...	1 0	...	36·18	159
D	,, (,, Park)	Countess of Suffolk	8	0 11	...	35·54	182
	Highworth (Hannington)	H. P. Dixon, Esq.	...	...	...	31·00	180
	DORSET.						
D	Portland (The Manse)	Rev. W. R. Waugh	5	1 6	125 T	34·66	170
	Weymouth (Wyke Regis)	Mrs. Pretor	5	0 9	80 B	36·57	174
	Corfe Castle (Smedmore)	Col. G. P. Mansel	5	...	...	33·57	141
	Swanage (The Bank)	J. Andrews, Esq.	5	1 0	8	35·22	165
	,,	Rev. H. Pix	5	2 0	60	34·41	163
D	,, (Langton Matravers)	H. Stilwell, Esq.	8	1 2	220 T	35·20	178
	Weymouth	The Royal Meteor. Soc.	5	1 0	79	35·68	169

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued.*)

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	DORSET—(*con.*)						
D	Weymouth (Langton Herring)...	Rev. C. H. Gosset	8	1 0	158 ⩛	37·59	177
	Corfe Castle (Creech Grange) ...	N. Bond, Esq.	5	1 2	180	40·19	...
	Abbotsbury.....	Mr. A. Dight	5	3 6	150	40·16	...
D	Portisham	W. Symes, Esq.....	5	1 3	...	39·77	154
D	Wareham (Castle Gardens)	S. W. Bennett, Esq. ...	5	2 6	18	38·62	183
	,, (Binnegar Hall) ...M	O. C. Farrer, Esq.....	5	1 0	65	38·01	...
	Poole (West Street)	F. Styring, Esq.	5	1 2	6	34·84	153
D	,, (The Yarrells)	,, ,, ...	5	1 1	60	37·56	169
	,, (Hanworthy)	Mr. J. M. Henderson...	5	1 6	12	33·79	130
D	,, (Parkstone)	R. H. Barnes, Esq. ...	5	0 11	198 ⩛	37·65	180
	Bridport (Downe Hall)	H. Gordon, Esq.....	5	1 0	110	42·16	...
	Bere Regis (Bloxworth Rectory).	Rev O.P. Cambridge FRS	8	0 10	200	43·84	158
D	,, (,, House) ...	Col. Cambridge	5	2 0	100	41·57	147
	Maiden Newton (Cattistock Lodge)	Mr. Chapple	8	1 0	400 B	*50·99*	183
D	Beaminster Vicarage.....	Rev. A. A. Leonard ...	5	1 0	216 T	47·04	198
D	Blandford (Whatcombe)	J. Mansel-Pleydell, Esq.	5	0 10	270 ⩛	42·40	147
	,, (Tarrant Keynston)...	G. Galpin, Esq.	5	1 0	100 T	*39·29*	...
	Cerne Abbas (Melbury).....	Mr. T. C. Elliott	5	1 4	...	50·09	...
D	Beaminster (Chedington)	Miss Creed	5	1 6	604 ⩛	53·87	191
D*	Wimborne Minster (Chalbury)...	Rev. G. H. Billington..	5	2 0	338 ⩛	38·81	174
D	Hazelbury Bryan Rectory	Rev. Canon Wheeler...	5	1 0	305 ⩛	59·26	162
D	Sturminster Newton (Riverside).	A. R. Hallett, Esq. ...	5	1 0	200	*37·56*	177
D	Shaftesbury	T. Ackland, Esq.	5	1 4	722 ⩛	38·10	189
D	Gillingham.....	S. H. Stephens, Esq....	5	1 2	244 T	39·97	188
	DEVON.						
	Salcombe (Prawle Point)	The Meteor. Council ...	8	1 9	350	*33·85*	...
D	,, (The Molt).....	Mr. Langmead	8	1 3	61 L	43·06	146
D	,, (The Knoll)	Dr. Twining	5	1 0	106 T	*45·86*	166
	Bolt Tail.....	G. Balkwill, junr., Esq.	5	2 0	297	43·12	...
D	Kingsbridge	W. H. Webb, Esq., M.D.	5	1 0	84	51·10	177
D	Revelstoke (Membland)	Mr. G. Baker.....	5	1 0	180 T	*47·47*	153
D	Dittisham (Chipton)	Mr. H. Bond	5	1 6	360 T	*60·28*	165
D*	Devonport (Rowdens Res.)	H. Francis, Esq., C.E.	5	1 0	201 ⩛	*41·71*	188
D	Ivybridge (Langham Hill)	Miss Glanville	5	1 0	400 T	*58·92*	197
D	Brixham (Lupton).....	Mr. J. Gibson.....	5	1 6	220 T	50·01	147
	Plympton (Hemerdon) ...*garden*	Rev. G. L. Woolcombe	5	4 0	365	*53·94*	...
	,, (,,)*tennis court*	,, ,, ,, ...	5	1 0	365	*57·30*	...
	,, (Fursdon)	F. R. Fox, Esq.....	5	1 6	440	*62·68*	...
	Bere Ferrers	Rev. F. T. W. Wintle.	5	1 0	100	*53·71*	198
D	Torquay (The Rosery)	A. Chandler, Esq.....	5	1 0	36	52·01	188
D	,, (Grey Lodge)	Col. J. R. Currie	5	1 0	260	*48·65*	200
D†	,, (Babbacombe) *Snowdon*	E. E. Glyde, Esq.	5	1 0	294 ⩛	46·88	197
D	,, (Watcombe Park)	Col. C. Ichabod Wright	5	1 0	500 T	47·79	200
	Buckfastleigh (Bossel Park) ...	J. Hamlyn, Esq.....	5	1 0	250	74·65	176
	Sheepstor (Head Weir)	E. Sandeman, Esq., C.E.	5	1 0	690 T	*73·76*	190
D*	Walkhampton (Lowery)	H. Francis, Esq., C.E.	5	1 0	890 T	72·94	183
	Kingskerswell (Fluder)	R. W. Beachey, Esq...	5	1 0	353	48·75	172

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter.	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell
			ft. in.	feet.	inches.	
DEVON—(*con.*)						
D Abbotskerswell (Court Grange)..	Mrs. Hare	5	1 0	130 B	49·34	142
D Ashburton (Holne Vic.)...*new g.*	Rev. J. Gill.....	5	1 6	650	77·82	215
D† ,, (Druid House).....	Fabyan Amery, Esq....	5	1 0	572 T	64·11	195
D Kingsteignton (Teignbridge Ho.)	F. H. Plumptre, Esq...	5	1 2	27 ⅄	43·39	166
Teignmouth (Bonnicliff)	Capt. J. Horner.....	5	1 0	260 T	42·14	191
D†Tavistock (Public Library)	Mr. R. Westington ...	8	20 0	283 T	57·41	212
D ,, (West Street)	H. A. Gibson, Esq	5	1 1	272	64·86	217
D†Ilsington (Middlecott House) ...	Alfred Lyon, Esq.	9	3 6	649 T	56·93	166
Princetown (Cowsic Valley).....	H. Francis, Esq., C.E.	8	1 6	1352 ⅄	*93·10*	...
D Chudleigh (Ideford)	Rev. G. J. Ford.....	4	1 0	300 ⅄	*41·68*	198
D Bovey Tracey (Colehays)	Mr. E. E. Underdown.	5	1 3	415 T	*57·92*	212
†Milton Abbot (Endsleigh).....	Mr. F. Yole	5	1 0	180 ?	*59·92*	...
D Chudleigh (Torquay Waterworks)	T. S. Weeks, Esq., C.E.	8	4 0	718 ⅄	52·03	203
,, (Trusham)	Rev. O. H. Cary	5	1 0	322 T	46·42	211
D Budleigh Salterton (Ravenshaw)	Col. Carlile.....	6	0 6	50	39·62	176
D ,, ,, (Bickton) ...	Mr. Mayne	5	1 0	90	*39·18*	183
D Kenton (Southtown House)	Major Courtenay	8	2 6	70 L	42·00	179
Coryton (Lew Down)	Mr. T. M. Symons.....	5	4 0	445	56·87	203
D Polapit Tamar [Launceston] ...	E. Coode, Esq.	5	2 9	300	*43·00*	229
D Christow (Torquay W. W.).....	T. S. Weeks, Esq., C.E.	8	1 0	842 ⅄	51·24	204
D Chagford (Batworthy)	F. N. Budd, Esq.	8	1 0	1282 ⅄	*74·49*	205
†Sidmouth (Sidmount)	The Royal Meteor. Soc.	5	1 0	149 ⅄	39·20	210
D Rousdon [Lyme Regis].....	C. E. Peek, Esq.	5	1 0	514 T	*39·88*	186
,, [,, ,,]..... M	,, ,, ,, ...	3	1 0	524 T	*40·87*	...
D†Clevelands [Lyme Regis].....	Mr. H. Munro	5	1 11	465 ⅄	44·24	182
Exeter (Devon & Exet. Inst.) ...	Mr. E. Parfitt.....	6	13 7	155 ⅄	36·94	150
,, (Lyndhurst Road).....	Miss M. E. Clark	5	5 9	145	41·07	...
D ,, (Manston Terrace)	Miss Dymond	5	1 0	166 ⅄	35·97	193
,, ...	The Royal Meteor. Soc.	...	...	112	38·33	190
D†Okehampton (Oaklands)	W. H. Holley, Esq. ...	5	1 0	521 T	52·29	182
Axminster (Great Trill)	F. J. Sparks, Esq.....	5	1 0	300 T	43·46	139
D†Exeter (Brampford Speke)..*old g.*	Miss Gamlen	5	1 0	114 T	36·90	209
,, (,, ,,) *new g.*	,, ,, ...	5	1 0	114 T	36·36	207
D Axminster (South Street).....	Mr. S. Griffin.....	5	3 6	138 T	*44·47*	152
D Honiton (Feniton Court)	Miss Pinckney	5	1 0	229 T	*40·39*	196
D ,, (Ivedon) .....*new gauge*	G. E. Stanley, Esq. ...	5	1 0	400 T	40·27	189
D Hatherleigh (Broomford Manor)	Mr. W. Mortimore.....	5	1 4	484 ⅄	46·86	171
,, (Ash).....	J. S. Osbourne, Esq....	5	1 0	332 ⅄	*43·14*	140
D Cullompton.....	T. Turner, Esq.	5	1 0	202 ⅄	39·23	198
D Petrockstow (Heanton Satchville)	Mr. A. Eames	5	1 0	332 T	42·96	207
D Tiverton (Broomhill).....	Mrs. Dickinson	5	1 0	380	41·85	200
D ,, (Ivy Place, S. Peter's St)	late H. S. Gill, Esq. ...	5	6 0	270	40·44	206
D Witheridge (Bradford Cottage)..	Rev. J. H Thompson..	5	1 0	600	41·59	221
Torrington (Beare Ho., Langtree)	Mr. A. Broderick	5	1 0	451 ⅄	50·75	...
D Tiverton (Cove).....	Miss North Row.....	11	0 10	450 ?	43·75	143
D Bampton (Huntsham)	Col. Troyte	8	1 0	640	52·33	218
D South Molton (Rose Ash)	Mrs. Davy	8	1 0	766 ⅄	42·92	158
D Bideford (Heale House Littleham)	late R. Sanders, Esq....	8	6 0	280 B	49·86	191

DIVISION V.—SOUTH WESTERN COUNTIES—*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above SeaLevel	Depth of Rain. 1891	Days on which .01 or more fell.
			ft. in.	feet.	inches.	
DEVON - (*con.*)						
D Hartland Abbey	Mr. G. Sleep	5	1 6	222 T	48·65	174
D South Molton (East Street)	N.C.Hatherly, Esq.M.D	5	1 0	430 B	46·27	202
D ,, ,, (Castle Hill)	Mr. R. Nicholas	12	3 9	600 T	46·79	177
,, ,, (,, ,, School)	The Royal Meteor. Soc.	8	1 0	363	47·33	229
D Bideford (Water Works)	Baldwin Latham Esq CE	5	1 0	335 T	41·62	170
*† ,, (Horwood)	Rev. J. Dene	5	1 0	288 T	36·52	195
,, (St. Helen's, Northam)	Miss L. Bowles	5	0 10	67	36·13	184
D*† ,, (Northam)	Rev. M. D. Churchward	5	1 0	173 T	38·29	191
D Barnstaple Athenæum	Mr. Knill	8	1 0	31 T	?32·30	157
D ,, (Pilton)	Miss Hibbert	5	1 0	75	39·92	206
D ,, (Arlington Court)	Lady Chichester	5	1 1	613 B	*54·57*	202
Lynton (Parracombe)	Rev. J. F. Chanter	5	3 0	795 T	50·65	177
D†Ilfracombe Hotel	Mr. W. Tattam	12	9 0	35	*38·11*	179
†Lynton (Lee Abbey)	C. F. Bailey, Esq.	5	0 6	340 T	41·87	...
Lynmouth (Glenthorne)	W Halliday, Esq.	5	0 9	93	52·44	...
CORNWALL.						
Penzance (Penlee)	J. Branwell, Esq.	5	1 0	71 T	48·56	221
,, (Trevean)	Major Ross	5	1 6	90 B	49·62	197
D ,, (St. Clare)	Rev.Preben. Hedgeland	5	1 0	213 T	*49·27*	237
Marazion	T. W. Field, Esq.	5	2 0	30?	42·36	197
D Falmouth (New Observatory)	E. Kitto, Esq.	11	2 0	169 T	48·01	197
,, (,, ,,)	,, ,,	8	1 9	169 T	48·24	196
St. Just	R. B. Searle, Esq.	5	1 0	400	50·33	...
Morvah (Bosporthenis)	Mr. J. H. Thomas	5	3 6	600?	49·00	...
Falmouth (Kennal Vale)	H. Crowther, Esq.	...	...	...	50·84	...
D ,, (Carclew)	Mr. J. Simmons	5	0 9	...	*50·70*	169
D Redruth (Trevince)	E. B. Beauchamp, Esq.	8	0 8	240 T	50·73	204
D ,, (Trewirgie)	A. H. Jenkin, Esq.	5	1 0	400 T	52·89	217
D ,, (Tehidy Park)	Mr. A. Mitchell	8	1 1	287	46·65	205
D†Truro (Royal Institution)	H. Crowther, Esq.	5	40 0	56 T	45·05	208
D Probus (Lamellyn)	H. Tresawna, Esq.	5	0 6	...	42·15	167
St. Agnes	Mr. Opie	5	1 3	278 B	41·53	174
D†*St Austell (Trevarna)	W. Coode, Esq.	5	0 6	300 T	*47·68*	215
Par Station (Penellick)	W. E. Geach, Esq.	5	0 9	240 T	39·67	...
Empacombe [Devonport]	J. Sandercock, Esq.	5	0 7	20	42·64	183
Cremyll [,,]	Mr. W. E. Marchant	5	12 3	25	*41·57*	194
D St. John's [,,]	Rev. J. H. Kirwan	5	1 0	20	45·83	186
D St. Germans (Catchfrench)	Miss Tatham	5	1 0	250	*52·91*	206
D Lostwithiel (Lanwithan)	Miss Foster	10	1 0	80	50·26	187
D Liskeard (Herodsfoot Vic.)	Rev. G. B. Hooper	8	2 0	295	51·74	213
D† ,, (Dean Terrace)	S. W. Jenkin, Esq., C.E.	5	1 1	375 T	56·47	202
†Saltash (Pentillie Castle)	Mr. A. W. Cove	5	1 6	150 B	64·83	194
D†Bodmin (Lanhydrock)	Rev. Prebendary Every	5	1 0	390	*55·71*	233
D† ,, (Fore Street)	Mr. A. Hambly	8	2 6	336 T	57·75	224
Callington(Hingston Down)*new g*	Mr. Wadge	5	3 0	850 T	*63·11*	185
D†Launceston (Altarnun)	Rev. A. H. Malan	5	1 0	570 B	66·99	231

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued.*)

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above SeaLevel	Depth of Rain. 1891	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	CORNWALL—(*con.*)						
	Bude	J. Arthur, Esq.	5	1 0	16 B	37·48	...
D	Stratton (Trelana, Poughill)	Col. Field	5	1 0	200	*40·08*	217
	SOMERSET.						
	Chard (Cricket St. Thomas)	RtHn. ViscountBridport	5	1 0	444	50·70	165
D	Crewkerne (Bincombe House)	F. J. Sparks, Esq.	5	1 2	250 T	43·42	146
D	Yeovil (West Coker)	Major Aldworth	5	1 0	260 T	40·75	212
D	,, (Hendford)	J. Curtis, Esq.	5	1 0	132	39·69	161
D	,, (Summerlands)	R. W. Burnell, Esq.	5	2 0	229 T	38·28	162
D	Ilminster (White Lackington)	Rev. PrebendryGowring	5	1 0	136 ⅄	43·04	186
D	,, (Ilton Vicarage)	Rev. R. B. Poole	5	1 0	100 ⅄	38·80	191
D	South Petherton	W. Blake, Esq.	8	0 8	110 T	35·75	194
D	Temple Combe (Stowell Rect.)	Rev. H. J. Poole	8	1 0	376 ⅄	39·13	190
D	Taunton (Claremont)	E. Ball, Esq.	8	1 2	80 B	33·08	201
D	Langport (Huish Episcopi)	J. Kelway, Junr., Esq.	8	1 0	74 T	29·88	155
D	Milverton	J. H. Bere, Esq.	5	1 0	198	39·37	179
D	,, (Halse)	H. C. Hancock, Esq.	5	1 1	200 T	35·30	181
	Cothelston House	C. E. J. Esdaile, Esq.	5	1 0	500	42·42	191
D	Somerton (Butleigh Court)	R.NevilleGrenville,Esq	8	1 2	80	37·14	163
D	Glastonbury (Street)	W. S. Clark, Esq.	8	0 4	100	32·80	219
	,, (High Street)	J. Spire, Esq.	8	7 0	94 T	34·93	188
D	,, (Ynyswytryn)	Major Swayne	5	1 8	245 T	33·72	175
D	,, (Magdalene House)	J. G. L. Bulleid, Esq.	5	1 6	52 T	33·12	175
	Bridgwater (Nurseries)	H. Corder, Esq.	5	0 6	...	32·44	182
D	Dunster (Knowle)	WorsleyBattersby,Esq.	5	1 2	260 T	43·88	178
	Minehead (Blair)	Late Dr. Clark	5	1 0	75 T	34·55	170
D	Wells	late R. J. Manning,Esq.	5	44 0	181 T	38·82	179
	,, (*Garden*)	,, ,, ,,	5	1 3	139 T	*38·67*	179
D	Frome (Mells Rectory)	Rev. G. Horner	5	1 0	344 ⅄	44·89	192
D	,, (Rock House, Mells)	W. A. Fussell, Esq.	7	2 4	326 ⅄	46·18	195
	Chewton Mendip (The Priory)	Mr. J. Batt	5	1 5	550 T	54·24	173
	Ston Easton	H. E. Hippisley, Esq.	5	3 0	480 ⅄	45·33	181
	E.Harptree (Sherborne Reservoir)	Bristol Water Works	5	1 0	338 T	48·86	194
D	,, (Harptree Court)	W. W. Kettlewell, Esq.	5	1 0	346 ⅄	52·40	200
	Axbridge (Winscombe)	Rev. R. F. Follett	8	1 0	200 T	41·09	155
D	Pensford (Sutton Court)	Sir E. Strachey, Bt.	8	1 0	...	47·45	194
	Weston-super-Mare (High St.)	The Royal Meteor. Soc.	5	1 0	20	33·54	183
D	,, ,, ,, (Worle Vic.)	Rev. W. F. Rose	5	1 0	16	38·01	189
	Chew Magna	Bristol Water Works	5	1 0	160 T	45·50	195
†	Bath (Bathwick)	Mrs. Dunn	5	1 0	50	35·74	...
D	,, (Ensleigh, Lansdowne)	C. H. Weston, Esq.	8	1 0	740 ⅄	39·48	203
D	,, (Charlcombe)	C. Gilby, Esq., C.E.	8	2 0	325 T	38·55	191
D	Batheaston	Col. Linley Blathwayt	5	1 0	166 ⅄	36·66	182
D	,, Reservoir	C. Gilby, Esq., C.E.	6	2 0	248 ⅄	35·51	194
	Yatton (Chelvey)	Bristol Water Works	7	0 6	...	42·59	170
	Barrow Gurney Reservoir	,, ,, ,,	5	1 0	320 T	44·87	190
D	Long Ashton Estate Office	T. Dyke, Esq.	8	1 0	134	41·94	198

DIVISION VI.—WEST MIDLAND COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
			ft. in.	feet.	inches.	
GLOUCESTER.						
D Monkswood Reservoir [Bath]	C. Gilby, Esq., C.E.	6	2 0	363	39·17	203
Bristol (Small Street)	Bristol Water Works	12	33 10	52	40·86	169
D† Clifton (South Parade)	Late Dr. G. F. Burder.	8	1 0	192 ⇈	42·52	182
D ,, (Royal York Crescent)	Miss Bridge	5	8 2	226 T	41·97	202
D ,, (Pembroke Road)	R. F. Sturge, Esq.	8	0 10	215	42·98	184
D Bristol (Over Court) Park	R.C.C. Lippincott, Esq.	5	0 9	148 T	41·75	201
D ,, (,, ,,) Garden	,, ,, ,,	8	1 0	137	40·74	201
Chipping Sodbury (Frampton Cotl)	J. Marsh, Esq.	5	1 0	180 ⇈	38·42	177
D ,, ,, (Stanshawes Ct)	R. N. Hooper, Esq.	5	1 3	280 ⇈	40·90	183
D Almondsbury	Rev. C. O. Miles	5	1 0	144	39·88	192
D Wickwar Rectory	Rev. R. J. Lyon	5	1 0	260 ⇈	39·86	192
Tortworth Court	Mr. T. Shingles	8	1 0	264	42·19	166
D Dennel Hill [Chepstow]	late Major Cowburn	8	1 0	573 ⇈	43·70	197
D Fairford (Kempsford)	A. T. Iles, Esq.	5	1 0	...	29·30	182
D ,, (Horcott)	R. A. Iles, Esq.	5	0 8	...	29·05	157
Berkeley (Salter Street)	H. E. Cooke, Esq.	5	1 6	60	36·90	208
D ,, (Sharpness New Docks)	F. A. Jones, Esq., C.E.	8	3 9	50	34·98	164
D Lechlade	T. Arkell, Esq.	5	1 0	253	28·93	178
D Amberley (Highlands)	Mrs. Blackwell	8	0 10	550 T	40·74	162
D Lydney (Clanna)	Capt. Marling	5	1 0	260	44·36	183
D ,,	G. W. Keeling, Esq.	10	5 0	87	34·84	175
D Cirencester (Claremont Place)	R. Gorton, Esq.	8	1 0	356 T	37·40	184
,, (,, ,,)	,, ,, ,,	8	2 0	357 T	37·36	184
,, (,, ,,)	,, ,, ,,	8	0 6	356 T	37·48	184
,, (,, ,,)	,, ,, ,,	8	11 0	366 T	33·61	184
D ,, (Royal Agricultural Coll.)	J. Hendrick, Esq.	5	1 0	443 ⇈	36·46	188
D ,, (Further Barton)	Miss Brown	5	1 0	425	37·87	193
D Stroud (Stanley Park)	W. J. Paley Marling, Esq	8	1 0	365	41·11	196
D ,, (Upfield)	Miss Stanton	5	1 0	226 ⇈	35·96	196
Stonehouse (Haywardsfield)	H. A. Sibley, Esq.	5	0 6	...	33·70	...
D Fairford (Hatherop Rectory)	Rev. R. P. Davies	8	1 3	411 ⇈	31·50	169
D Frampton-on-Severn (Saul Lodge)	F. A. Jones, Esq., C.E.	5	3 6	42 ⇈	34·97	188
D Whitminster	,, ,, ,, ,,	5	1 0	32	33·43	183
Coleford (The Coombs)	R. Tyrer, Esq.	5	...	660	55·77	214
Newnham-on-Severn	D. J. Wintle, Esq.	5	0 10	56 ⇈	43·40	132
D Coleford (Staunton Rectory)	Mrs. Jay Jones	5	0 8	726 T	46·41	206
D Westbury-on-Severn	H. S. Grant, Esq.	5	1 0	120 T	36·39	176
D Great Barrington [Burford]	B. W. Mason, Esq.	5	1 0	416 T	34·99	172
Northleach (Yanworth)	T. Arkell, Esq.	5	1 0	...	37·21	165
,, (Sherborne House)	Mr. Scott	5	1 0	405	35·08	132
D* ,, (Hampnett Rectory)	Rev. W. Wiggin	5	1 0	653 ⇈	35·99	200
Gloucester (Quedgeley House)	W. G. Robinson, Esq.	5	1 0	65 T	32·86	189
D ,, (Birdlip Hill)	A. S. Helps, Esq.	5	1 0	800 B	35·18	183
D ,, (Witcombe Res.)	R. Read, Esq., C.E.	8	3 0	297 ⇈	34·36	174
D ,, (Llanthony Lock)	H. J. Marten, Esq., C.E.	5	1 2	39 ⇈	30·00	148
D ,, (Lower Barton Street)	W. P. Brown, Esq.	5	1 0	65 ⇈	31·52	181
,, (Wotton Hill)	A. Stephens, Esq.	5	1 0	80 T	30·57	...
D ,, (,, Asylum)	E. Cardwell, Esq.	8	0 9	90 ⇈	31·68	185

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above SeaLevel feet.	Depth of Rain. 1891 inches.	Days on which ·01 or more fell.
GLOUCESTER—(*con.*)							
D Mitcheldean (Edge Hill House)..	W. H. M. Phillips, Esq.	5	1	0	725 ⅄	40·08	195
Cheltenham (Dowdeswell).....	J. Hall, Esq., C.E.....	5	1	0	375	37·68	183
D†Gloucester (Maisemore Lock) ...	H.J. Marten, Esq., C.E.	5	1	1	39 ⅄	28·32	207
D Bourton-on-the-Water.....	E. W. Kendall, Esq....	5	1	0	434 T	36·54	193
D Cheltenham (Battledown).....	Sir Brook Kay, Bt. ...	5	0	8	393 ⅄	33·01	190
,, (Northfield)	J. Hall, Esq., C.E.....	8	2	5	637 ⅄	33·69	171
,, (Hewletts Res.) ...	,, ,, ,,	8	1	6	417 ⅄	34·56	172
D ,, (Heath Lodge) ...	Rev. M. A. Smelt	8	1	0	206	33·82	193
,, (Selsley Lawn).....	W.McLandsboroEsq CE	5	4	0	236	32·68	...
D ,, (Southam Villa) ...	R. Tyrer, Esq.	5	1	0	184 ⅄	33·14	192
Moreton-in-Marsh(Longborough)	W. Arkell, Esq.....	5	0	9	...	35·45	177
D ,, ,, (,, ,,)	,, ,, ,, ...	5	1	0	...	36·05	177
D†Tewkesbury (Upper Lode)	H.J. Marten, Esq., C.E.	5	1	0	41 ⅄	27·20	172
,, ...	J. Hall, Esq., C.E.....	5	0	9	44	25·44	168
D ,, (Beckford)	F. Slade, Esq., C.E. ...	8	1	0	120 ⅄	29·43	185
D Alscot Park [Stratford-on-Avon]	Mr. T. B. Wilson	5	1	3	...	27·13	185
HEREFORD.							
Wyastone Leys [Monmouth] ...	J. M. Bannerman. Esq.	6	1	0	200 T	40·32	197
D Ross (Croome Hall)	W. E. Hancock, Esq...	9	2	0	284 ⅄	33·23	174
D† ,, (The Graig)	H. Southall, Esq.	5	1	0	213 ⅄	33·57	200
,, (Perrystone Court)	Mr. T. Greenway	5	1	3	...	31·23	178
Much Dewchurch (Bryngwyn)...	J. Rankin, Esq., M.P.	5	0	6	416 T	35·32	198
D Much Marcle (Homme House) ...	Mr. J. Maxton	5	0	11	280 T	32·22	186
,, ,, ...	C. A. Whatmore, Esq.	5	1	0	213 ⅄	31·39	179
D ,, ,, (Caerswall)	T. Charles, Esq.....	5	1	0	423 B	32·66	185
D Ledbury (Orchardleigh)	M. A. Wood, Esq.....	5	3	0	160	29·27	160
,, (Putley Court)	J. Riley, Esq.....	5	1	0	290	32·01	181
Hereford (The Elms).....	C. Anthony, Esq.	8	2	0	277 ⅄	30·09	177
D ,, ...	Rev. Canon Phillott ...	5	1	1	182	28·09	167
,, (Hagley Park)	A. Hutchinson, Esq....	5	0	6	300 B	24·99	...
D Ledbury (Canon Frome Vic.) ...	Rev. M. Hopton.....	8	1	3	252 T	29·26	180
Hereford (Brinsop Vic.)	Rev. Preb. Elliot	5	1	0	300 T	26·59	165
,, (Burghill) ..... No. 3	T.A.Chapman,Esq.M.D	5	1	0	275	27·78	179
D ,, (,,) ..... No. 4	,, ,, ,, ...	5	1	0	275	27·45	179
Bodenham Vicarage	Rev. H. C. Sturges ...	5	0	6	250 T	29·54	...
D Hope-u-Dinmore (Hampton Ct.)	J. H. Arkwright, Esq..	8	1	2	212 B	28·81	163
D Weobley (Dilwyn)...	T. L. Hall, Esq., M.D.	5	0	8	290 T	30·87	192
D Kington (Lynhales)	S. Robinson, Esq.	8	1	0	...	35·48	204
D Pembridge (Marston)	H. Langston, Esq.....	5	1	5	347 ⅄	31·45	195
D Bromyard (Buckenhill).....	R. Phipps. Esq.....	8	1	9	...	29·73	157
D Leominster (Farm)	Mrs. Southall.....	5	1	0	245	32·87	205
D Kington (Eywood).....	RtHonLd.Ormathwaite	8	12	0	600	33·90	183
D Stoke Bliss	Rev. G. E. Alexander..	5	1	0	420 T	31·55	179
SHROPSHIRE.							
D Ludlow (Ashford)	Rev. J. Selwood Tanner	5	1	2	265 T	31·99	183
Dowles [Bewdley]	J. M. Downing, Esq..	5	1	3	162 ⅄	29·44	151

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued.*)

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter.	Height Above Ground.		Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
				ft.	in.	feet.	inches.	
	SHROPSHIRE—(*con.*)							
	Cleobury Mortimer (Neen Savage)	Rev. F. Burd	5	0	11	367 T	35·44	189
D	Ludlow (Bromfield Vicarage) ...	Rev. W. Selwyn	5	1	0	300 T	36·66	187
	Clun (Bettws).....	Mr. R. F. Brand	5	2	0	1150 T	43·43	...
	Craven Arms (Stokesay Vicarage)	Miss La Touche.....	5	1	0	371 ⅄	34·86	174
D	Burwarton	Rev. A. James	5	1	0	830	40·54	196
D	Bridgnorth (Coton Hall)	Col. Wakeman	3	2	0	460 T	29·77	146
	Bishop's Castle (Totterton)	W. H. Whitaker, Esq.	5	0	7	...	39·39	167
	,, ,, (Castle Street)...	E. Griffiths, Esq.	5	2	0	720 B	37·07	186
D	Much Wenlock (Larden Hall) ...	Miss F. Rouse Boughton	8	1	3	658 ⅄	34·23	200
D	Bridgnorth (Aldenham Park) .	W. F. De Wend, Esq..	5	3	9	430 T	33·57	177
	Church Stretton (Preen Manor)...	A. Sparrow, Esq.	5	1	0	700 T	34·28	188
D	,, ,, (Woolstaston)...	Rev. E. D. Carr.	5	1	0	800 ⅄	37·87	217
D	Middleton in Chirbury	Rev. W. Brewster.....	5	1	2	702 ⅄	33·15	208
D	Much Wenlock (Willey Park)...	Rt. Hon. Lord Forester	5	1	0	502 ⅄	32·50	193
	Minsterley (Hampton Hall)	J. Whitaker, Esq.....	...	1	0	630 T	35·70	...
	,, (Wallop)	J. E. Severne, Esq. ...	8	2	0	700 T	37·84	189
D	Pontesbury (The Villa).....	Mr. W. R. Croft	5	1	6	350 T	30·88	161
	Shifnal (Neachley).....	Hon. F. Bridgeman, MP	5	1	6	280 T	30·51	182
D	Wem (The Clive Vic.)	Rev. J. Cooper Wood...	5	1	0	299	30·80	219
D	Cheswardine (Knighton Res.) ...	G. R. Jebb, Esq., C.E.	8	0	3	351 ⅄	38·56	188
	Oswestry (Hengoed)	Rev. A. R. Lloyd	5	6	0	470 ⅄	37·47	...
	Market Drayton (Buntingsdale).	Mrs. Tayleur	5	1	0	276 ⅄	32·68	167
D	Adderley Rectory	Rev. A. Corbet	5	0	9	290 T	33·11	195
	STAFFORD.							
	Dennis [Stourbridge]	E.B. Marten, Esq., C.E.	8	6	6	270 B	29·62	185
	Netherton (Lodge Farm Res.) ...	,, ,, ...	5	1	0	445 ⅄	28·67	176
D	Dudley (Shavers End)	W. Vawdrey, Esq., C.E.	5	1	0	770 T	27·02	184
D	Perry Hall [Birmingham]	Mr. G. B. Mitchison ...	5	2	6	343 ⅄	32·31	215
D	West Bromwich.....	J. T. Eayrs, Esq., C.E.	8	4	6	547 T	28·99	159
	Walsall	E. B. Marten, Esq., C.E.	8	4	0	463 ⅄	31·95	197
	,, ...	R. H. Middleton, Esq..	8	0	11	376	27·54	158
	Wolverhampton (Town Hall) ...	REW Berrington Esq CE	5	15	6	481 ⅄	28·62	148
	,, Park	Mr. W. Thomas	5	1	0	435 ⅄	28·83	195
D	,, (Tettenhall) ...	R. Smith, Esq., C.E...	5	1	0	454 ⅄	29·86	202
D	,, (Wrottesley) ...	Mr. E. Simpson	8	1	0	500	28·43	161
	Bloxwich (Sneyd Res.)	E.B. Marten, Esq., C.E.	5	1	0	507 ⅄	28·95	155
	Hammerwich (Cannock Chase Res)	,, ,, ,, ...	5	1	0	475 ⅄	29·89	186
	Lichfield Museum	Mr. J. P. Roberts	5	2	0	220 ⅄	32·27	197
D	Weston Park [Shifnal].....	Rt. Hon. Earl of Bradford	5	1	6	400 T	29·42	189
D	Brewood (Belvide Res.)	G. R. Jebb, Esq., C.E.	8	1	0	367 ⅄	29·33	142
D	Penkridge (Rodbaston)	H. Ward, Esq.	5	1	0	324 ⅄	31·10	169
D	Hednesford...	W. Vawdrey, Esq., C.E.	5	1	0	770 ⅄	25·43	172
	Alrewas (The Cottage)	E. Sellick, Esq.	5	1	6	181 T	25·49	133
D	Burton (Rangemoor).....	Mr. Bennett	5	5	6	424 T	29·58	177
D	,, (Shobnall)	R. W. Abbotts, Esq....	5	6	0	156 T	27·24	172
D	,, (Derby Road).....	J. G. Wells, Esq.	5	1	0	151 T	27·22	215
D	,, (Hoar Cross)	F. W. Lycett, Esq. ...	8	4	0	400 T	30·97	161

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height above Ground.	Rain Gauge. Height above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
			ft. in.	feet.	inches.	
STAFFORD—(*con.*)						
D Uttoxeter (Brook House)	Mr. J. J. Gibbons	5	1 0	283 ⇈	35·37	237
Market Drayton (Old Springs)	F. E. Harding, Esq.	5	0 8	422	34·10	...
D† Cheadle (The Heath House)	J. C. Philips, Esq.	5	1 0	647 ⇈	35·72	200
D† ,, (Tean Vicarage)	Rev. G. T. Ryves	5	1 1	470 T	37·68	206
D Longton (The Meir)	J. B. Piercy, Esq.	5	1 0	618 ⇈	37·68	206
D Newcastle (Madeley)	,, ,, ,,	5	1 0	348 ⇈	36·10	183
Stoke (Stanley Reservoir)	E. B. Smith, Esq., C.E.	5	3 1	550 T	34·68	138
Etruria	,, ,, ,, ,,	5	4 2	500	35·47	127
Alstonfield Vicarage	Rev. W. H. Purchas	5	1 0	909 ⇈	47·83	185
D Leek (Wall Grange) *new g.*	J. B. Piercy, Esq.	5	1 0	458 ⇈	35·44	185
Knypersley [Congleton]	E. B. Smith, Esq., C.E.	5	3 1	550 T	45·79	181
WORCESTER.						
D Pendock Rectory [Tewkesbury]	Rev. W. A. Strong	5	4 9	95	26·04	182
Blockley	R. B. Belcher, Esq.	5	1 0	472 ⇈	28·82	...
Northwick Park	Lady Northwick	8	1 6	410 ⇈	31·48	...
Upton-on-Severn (Willow Bank)	J. S. Cowley, Esq.	5	1 6	...	28·92	170
D Evesham (Lansdowne)	R. Burlingham, Esq.	5	5 0	124 B	27·57	148
D ,, (Bank)	T. J. Slatter, Esq.	5	1 0	120 T	28·36	206
†Great Malvern (Church Street)	J. E. Palmer, Esq.	5	1 0	361 ⇈	32·95	...
D† ,, ,, (Davenham Bank)	Mr. A. Bradshaw	8	1 0	290 T	33·27	157
† ,, ,, (Belle Vue House)	D. B. Coldwell, Esq.	5	4 0	520	33·28	183
† ,, ,, (Madresfield Rect.)	Rev. G. S. Munn	5	1 4	124 T	31·65	186
† ,, ,, (,, Court)	Mr. W. Crump	8	2 6	135 T	30·83	187
D† Worcester (Diglis Lock)	H. J. Marten, Esq., C.E.	5	1 0	49 ⇈	28·55	205
D ,, (Fort Royal)	HoraceSwete, Esq. M.D	5	5 0	135	27·29	188
D ,, (Belmont Road)	G. B. Wetherall, Esq.	5	1 6	175	28·44	197
D ,, (Water Works)	S. G. Purchas, Esq.	5	0 8	52	26·04	173
D† ,, (Bevere Lock)	H. J. Marten, Esq., C.E.	5	1 1	52 ⇈	27·57	186
D ,, (Hawford Lodge)	F. Ames, Esq.	5	1 1	...	32·50	157
D† Droitwich (Holt Lock)	H. J. Marten, Esq., C.E.	5	1 1	55 ⇈	28·44	167
D ,, ...	B. Godfrey, Esq., C.E.	5	4 0	161 ⇈	29·66	181
D Tenbury (Orleton)	T. H. N. Davis, Esq.	5	0 9	193 ⇈	32·24	193
,, (,,) ..... No. I.	,, ,, ,,	5	0 9	193 ⇈	33·07	193
,, (,,) ..... No. III.	,, ,, ,,	5	0 9	193 ⇈	32·09	193
D Redditch (Prospect Hill)	H. Page, Esq., M.D.	5	1 0	420 T	30·62	185
D Bromsgrove (Stoke Refor.) *new g.*	Mr. J. Salter	5	5 0	225 L	25·67	158
D ,, (Tardebigge Res.)	F. A. Jones, Esq. C.E.	5	3 0	433 T	29·25	181
D† Stourport (Lincombe Lock)	H. J. Marten, Esq., C.E.	5	1 0	62 ⇈	26·33	175
,, (Hartlebury)	J. Watson, Esq.	5	1 0	320	26·79	...
D Bromsgrove (Lower Bittal Res.)	F. A. Jones, Esq. C.E.	5	3 0	430 T	33·10	172
D Bewdley (Winterdyne Gardens)	Mr. W. Wrather	8	2 0	...	30·64	179
D Kidderminster (Woodfield)	Rev. J. R. Burton	5	3 0	167	28·65	173
D ,, (Prospect Hill)	Mr. J. T. Cowderoy	...	1 0	161 ⇈	27·05	204
Stourbridge (Pedmore)	E. B. Marten, Esq., C.E.	8	0 11	350 ⇈	30·06	191
D King's Heath [Birmingham]	R. Godfrey, Esq., C.E.	5	8 0	523 ⇈	33·83	145
D Moseley [Birmingham]	G. F. Lyndon, Esq.	5	1 0	478 T	34·35	184

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued.*)

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	WARWICK.						
D	Shipston (Compton Wynyates)...	J. Sargent, Esq.....	5	2 6	480	27·89	197
D	Farnborough Vicarage	Miss Prater	5	1 0	520 T	33·39	183
	Kineton (Fenny Compton)	Miss Knott	5	4 0	436	25·97	...
D	Stratford-on-Avon (Guild Street)	Rev. F. Smith	12	4 0	135 T	23·97	189
D	Alcester (Ragley Hall)	The Marquis of Hertford	5	1 0	260 T	29·49	179
D	,, (,, Gardens)	Mr. A. Christie	5	1 0	150 T	31·06	215
D	Snitterfield	A.H.Campbell, Esq., C.E	5	1 0	304 T	26·64	164
D	Warwick (Barford Rect.)	Rev. C. Mills.....	8	0 11	167 ⊼	28·26	176
D	Southam (Stockton)	Rev. W. Tuckwell.....	5	1 0	289	24·52	172
	Leamington (The Parade).....	J. Barnitt, Esq.	5	0 8	195 ⊼	27·72	165
	Henley-in-Arden (Barrells Park)	T. H. G. Newton, Esq.	5	1 0	318 T	29·71	166
D	Kenilworth (Park Hill).....	T. G. Hawley, Esq. ...	8	0 8	300	30·01	178
D	,, (The Spring)	W. Evans, Esq.....	5	1 0	312 ⊼	28·58	170
D	Rugby School.....	H. P. Highton, Esq....	5	1 3	383 T	26·90	171
	Coventry (Ryton on Dunsmore) ..	Mr. Franklin	5	1 2	261 T	29·17	...
D	,, (Priory Row)	J. Gulson, Esq.	8	1 3	279 ⊼	29·70	184
D	,, (Middlesboro' Ter.)*n. g*	Mrs. Stearns	8	1 0	345 ⊼	32·97	191
	,, (Stoke)	J. Gulson, Esq.	8	1 3	241	29·26	185
D	,, (Coundon)	Colonel Caldicott	8	1 6	375 T	33·18	193
D	Birmingham (Sheldon Rectory)..	Mrs. Jones Bateman ...	8	1 0	323	35·60	170
D†	,, (Botanic Gardens)..	Mr. Latham	5	5 2	505 T	29·51	189
D	,, (The Crescent)	J. J. Gilbert, Esq.....	5	21 0	495 T	28 06	167
	,, (,, ,,) ...M	,, ,, ,, ...	5	7 0	480 T	30·43	...
D	Bedworth Cemetery	Mr. D. Bosworth	5	1 0	385 T	29·79	170
D	Castle Bromwich Hall	Mr. E. Gibson	5	1 2	363 ⊼	32·23	210
D	Sutton Coldfield.....	C.F. Marston, Esq., C.E.	5	1 0	366 ⊼	30·67	165
D	Atherstone	Baldwin Latham Esq C E	5	1 0	286 T	29·91	189

DIVISION VII.—NORTH MIDLAND COUNTIES.

	LEICESTER.							
D	Market Harborough (Fairlawn)..	R. Symington, Esq. ...	8	4	0	324 T	28·62	194
	Fleckney.....	J. B. Putt, Esq.....	5	1	0	411 T	29·25	...
D†	Kibworth Beauchamp	T. Macaulay, Esq.....	5	2	6	355 T	28·16	178
D	Leicester (Town Hall Square) ...	E.G.Mawbey, Esq., C.E.	9	1	7	212 ⊼	25·36	168
	,, (,, ,,)	,, ,, ,, ...	5	0	6	211 ⊼	25·35	168
	,, (Humberstone Asy.)*n g*	J.E.M.Finch, Esq., M.D	8	1	0	244 ⊼	25·73	172
D†	Thornton Reservoir	F. Griffith, Esq., C.E..	8	1	2	371 ⊼	30·42	172
D	Barkby	Rev. E. N. Pochin.....	8	0	10	221 ⊼	28·52	196
D	Thurcaston Rectory	Rev. T. A. Preston ...	5	1	0	253 T	28·27	181
D	,, (Cropston)	F. Griffith, Esq., C.E..	8	1	0	246 ⊼	32·74	195
	Swithland	,, ,, ,, ...	8	1	0	...	29·29	193
	,, (The Brand)	,, ,, ,, ...	8	1	0	...	31·53	200
	,, (Broombriggs Hill)...	,, ,, ,, ...	8	1	0	...	28·58	201
D	Ratcliffe College.....	Rev. J. Hirst	5	1	0	288 T	29·90	193
D	Rotherby Hall	J. Hames, Esq.	5	1	0	240 T	27·77	224
D	Melton Mowbray (Thorpe Arnold)	Rev. J. S. Swift.....	8	2	3	336 ⊼	28·46	174

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
LEICESTER—(*con.*)						
D Loughborough (Nan PantanRes.)	A. W. Cross, Esq., C.E.	8	2 11	269 ⅄	29·80	189
,, (,, ,,)	,, ,, ,, ...	5	2 0	269 ⅄	29·91	...
D Waltham-le-Wolds	Captain Emmerson ...	5	1 0	568	31·09	195
D†Belvoir Castle	W. Ingram, Esq.	8	1 0	237 T	30·69	203
D Bottesford	Rev. R. M. Norman ...	8	0 8	100	25·40	148
RUTLAND.						
D Uppingham (West Deyne)	Rev. G. H. Mullins ...	8	1 6	485 ⅄	27·03	183
D Ketton Hall [Stamford]	F. Coventry, Esq.	5	1 0	130 B	27·07	202
Oakham (Whitwell)	Rev. J. Beecheno	5	1 0	300	24·44	...
D Tolethorpe Hall [Stamford].....	C. O. Eaton, Esq.	8	0 8	160 T	24·75	158
Burley-on-the-Hill	Mr. W. Temple	8	1 0	506	30·84	164
D Oakham (Greetham)	Rev. C. A. Holmes ...	5	0 4	377 ⅄	29·33	162
D Market Overton.....	Miss H. E. G. Wingfield	8	0 11	475 T	29·34	210
LINCOLN.						
Stamford (Castle Cottage).....	T. Booth, Esq.	5	1 0	...	25·22	...
D ,, (Northfields)	Mr. W. Hayes	5	1 0	166 ⅄	28·21	120
D Market Deeping (Wilsthorpe) ...	J. C. Gill, Esq., C.E....	8	3 10	55 ⅄	23·23	175
D*Bourne (Wytham-on-the-Hill)..	A. C. Johnson, Esq. ...	5	1 0	167 ?	24·26	108
Long Sutton	Mr. J. Tilson	5	4 0	18	25·69	184
Spalding (Pode Hole)	Mr. W. Grigg	12	1 0	20 ⅄	25·13	...
D Grantham (Stainby)	Rev. W. A. H. Thorold	4	0 9	...	30·27	137
D ,, (Denton Manor)	Sir W Welby Gregory Bt.	5	1 6	280 T	28·54	210
D ,, (Little Ponton Rect.).	Rev. P. R. Worsley ...	5	1 0	...	30·50	213
,, (Saltersford).....	H. Preston, Esq.	5	0 6	188 ⅄	26·35	175
,, (Guildhall)	S. G. Gamble, Esq., C.E.	5	13 6	202 ⅄	26·91	177
,, (Heydour Vicarage)..	Rev. G. Deedes	5	1 10	244 T	25·30	117
D Boston (Grand Sluice)	J. E. Williams, Esq., C.E	8	6 0	22	23·34	192
D ,, ...	W. H. Wheeler, Esq. C.E	5	6 6	16	22·93	149
Leake (Lade Bank Engines).....	J. E. Williams, Esq., C.E	...	...	...	24·76	176
D Wrangle	A. Spurr, Esq.	5	1 0	10 ⅄	26·76	188
D Stubton [Newark].....	G. Nevile, Esq.	5	4 6	94 T	26·94	159
Sleaford (Bloxholm)	Mr. D. Lumsden	5	1 6	80	26·75	147
D Navenby.....	Rev. J. Hays	8	1 2	216 ⅄	27·92	195
Kirkstead	Mr. R. H. Brett.....	5	1 2	...	24·56	...
D Skegness.....	H. V. Tippet, Esq.....	8	1 6	7	23·37	127
Horncastle (Miningsby)	W. H. Wheeler, Esq. C.E	5	0 6	135 ⅄	27·99	136
D Spilsby	Dr. J. W. Walker.....	5	1 0	160 T	31·68	193
D ,, (Hagworthingham)	Mr. R. Wright	5	1 1	252 ⅄	31·51	202
D ,, (Dalby Grange)	W. Wright, Esq.	5	2 0	300	34·21	198
D Horncastle (Bucknall)	W. Carter, Esq.....	5	1 0	100	26·11	169
,, (Queen Street)	H. George, Esq., M.D..	5	1 0	100	25·91	...
D Lincoln (Branston)	A. S. Leslie Melville, Esq	5	1 0	120	29·30	159
D† ,, (Boultham)	Mr. F. Terrill.....	5	1 0	18 ⅄	29·86	154
D ,, (Moorlands, Skellingthorpe)	J. M. Warrener, Esq..	5	1 2	27 T	27·50	177
† ,, (St. Botolphs)	H. Teague, Esq.....	5	1 0	25 ⅄	28·15	...
,, (St. Catherine's)	J. H. Teague, Esq.....	5	5 0	33 ⅄	28·71	...

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued.*)

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above SeaLevel	Depth of Rain. 1891	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	LINCOLN—(*con.*)						
D	Lincoln (Doddington)	Rev. R. E. Cole	5	1 2	92 ⅄	25·00	175
	,,	M. S. & L. R. Co.‡	9	3 6	26	23·85	162
	,, (The Close)	The Royal Meteor. Soc.	8	1 0	174	26·96	219
	,, (D'Isney Place)	A. H. Leslie Melville Esq	4	1 0	215 L	27·13	148
D	,, (Brayford Wharf)	Mr. J. W. Horton	5	5 8	28 ⅄	26·91	203
	,, (The Quarry)	R. Swan, Esq.	8	1 8	186 T	25·39	173
	,, (Skellingthorpe Hall)	A. B. Coupland, Esq.	5	1 1	.	25·13	166
D	Horncastle (Hemingby)	Rev. E. S. Bengough	5	1 0	158	28·57	180
D	Alford (The Burial Ground)	Mr. E. Hodgson	5	1 0	29 ⅄	28·24	183
D	,, (The Sycamores)	J. E. Mason, Esq.	8	1 3	22 T	28·96	205
D	Farforth (Maidenwell House)	Miss H. E. Browne	5	1 0	380 T	34·37	226
D	Brattleby	Rev. J. H. White	8	1 1	84	23·98	170
	Gate Burton	M. S. & L. R. Co.	9	3 6	96	24·62	139
D†	Louth (Gospelgate)	T. W. Wallis, Esq.	5	6 0	111 ⅄	33·47	186
†	,, (Westgate)	Dr. F. Fawssett	5	0 9	120 ⅄	34·19	178
D	Market Rasen	Mr. W. B. Jevons	5	0 8	84	27·19	143
	,, ,,	M. S. & L. R. Co.	9	...	100	22·74	159
	Gainsborough	,, ,, ,,	9	...	76	22·60	163
	Stockwith	,, ,, ,,	9	3 6	21	25·08	183
	Caistor	Rev. R. Thomas	5	0 9	283 ⅄	26·58	144
	Wroot Engine	A. L. Peace, Esq., C.E.	10	6 0	...	24·14	173
	Brigg	M. S. & L. R. Co.	9	3 6	16	25·05	199
	,,	A. Atkinson, Esq., C.E.	8	1 2	10 T	26·52	...
D	Grimsby (Aylesby)	S. McAulay, Esq.	5	1 6	...	27·54	172
	,,	M. S. & L. R. Co.	9	15 0	42	22·21	177
	Barnetby	,, ,, ,,	9	3 6	51	27·26	151
D	N. Level Engine [Thorne Donc'st'r]	A. L. Peace, Esq., C.E.	5	2 3	...	23·31	178
	Crowle (Keadby)	M. S. & L. R. Co.	9	...	10	25·92	160
D	Barton-on-Humber (Saxby Rec.)	Rev. R. Drummond Ash	5	2 6	...	27·88	187
D	Burton-on Stather Vicarage	Rev. F. A. Jarvis	5	0 6	212 T	27·93	211
	New Holland	M. S. & L. R. Co.	9	3 6	18	22·46	172
	NOTTS.						
D	Kingston Hall [Loughborough]	Mr. W. English	5	0 8	...	28·60	157
D	Plumtree (Normanton-on Wolds)	T. A. Hill, Esq.	8	1 0	170 T	27·17	185
	Cropwell Bishop (Cropwell Grove)	H. Smith, jun., Esq.	5	1 1	160 T	27·31	...
	Bingham (Whatton Manor)	M. H. Hall, Esq.	5	1 5	101 T	27·22	155
D	Nottingham (Beeston Fields)	G. Fellows, Esq.	5	0 9	206 ⅄	32·33	199
D	,, (The Castle)	A. Brown, Esq., C.E.	8	1 2	192 ⅄	25·89	160
	,, (,, ,,)	,, ,, ,,	8	76 0	268 ⅄	23·41	160
D	,, (Stoke Bardolph Sew Fm)	Mr. J. Avis	8	6 7	80	24·24	165
D	,, (Strelley Hall)	T. L. K. Edge, Esq.	8	1 0	396 ⅄	35·18	205
D	,, (Mapperley Hill)	E. Powell, Esq.	8	1 0	400 T	28·43	169
D	,, (,, Hall)	Col. Ichabod Wright	5	1 0	325 T	30·12	187
	,, (Basford)	A. Brown, Esq., C.E.	...	0 10	...	25·37	196

‡ Kept for the Canals Department of the Manchester, Sheffield, and Lincolnshire Railway Company.
Returns supplied by G. Taylor, Esq.

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
NOTTS—(*con.*)						
D Nottingham (Woodthorpe Grange)	H. Ashwell, Esq.	8	1 0	270	32·47	182
Nuttall	J. J. Taylor, Esq.	5	5 3	293	30·14	...
Bulwell (Springfield).....	G. W. Walker, Esq....	5	0 9	166	31·38	...
Newark (Shelton Rectory)	Rev. R. W. Marriott...	5	2 2	80?	25·46	...
Bulwell (Bestwood)	A. Brown, Esq., C.E...	...	1 0	...	27·88	171
D Eastwood Colliery	Mr. E. Lindley	5	1 0	245 T	32·01	183
Newark (East Stoke).....	Miss Stanton	5	1 3	...	27·48	135
D Hucknall Torkard (Forge Mills)	J. D. Walker, Esq.....	5	1 0	200 ?	27·60	197
Southwell (Oxton Hall)	W. Sherbrooke, Esq....	5	0 9	182	31·42	...
Papplewick (Water Works).....	A. Brown, Esq., C.E...	...	1 2	...	29·51	194
Annesley Park	Mr. A. Young	8	2 6	560	29·08	204
D Southwell (Grants)	T. L. K. Edge, Esq. ...	5	1 0	97 R	29·07	184
D Farnsfield	Dr. C. Wills	5	1 0	220 T	30·14	174
D Mansfield (Forest Villa)	S. W. Wright, Esq. ...	5	3 0	450	32·78	161
D ,, (Market Place).....	Mr. P. J. Shacklock ...	5	1 0	350	36·18	223
D Ollerton (Thoresby Gardens) ...	Mr. A. Henderson	8	0 6	175	29·37	151
Tuxford (Ragnall).....	Rev. A. F. Claydon ...	6	1 0	32 T	27·23	154
Worksop.....	M. S. & L. R. Co.	9	3 6	127	25·22	165
D ,, (Osberton Gardens)...	S. A. Woods, Esq.....	5	4 0	70	27·15	173
Retford	M. S. & L. R. Co.	9	3 6	52	25·27	180
D ,, (Babworth Hall)	Col. Denison	5	0 6	92 R	26·81	161
D ,, (W. Retford House) ..	Mrs. Overend	5	1 0	...	26·26	143
Worksop (Gateford).....	A. V. Machin, Esq.....	8	1 4	164	27·31	203
D ,, (Hodsock Priory).....	H. Mellish, Esq.	8	1 0	56 R	26·70	195
,, (,, ,,) .....M	,, ,, ...	5	1 0	56 R	26·11	...
The Gardens [Bawtry Hall] ...	L. T. Baines, Esq.....	5	1 3	31 T	25·91	112
D Hesley Hall [Tickhill]	B. I. Whitaker, Esq....	8	0 11	61 T	24·77	179
DERBY.						
D Stapenhill [Burton]	R. W. Abbotts, Esq....	5	4 0	170	28·13	212
,, [,,]	A. J. Brown, Esq.....	5	1 0	...	28·41	...
D Bretby Park [,,]	Mr. J. Read	5	...	405 T	31·22	172
D Melbourne (The Grange)	Miss Tasker	5	0 3	...	31·93	175
D ,, ...	Rev. Canon Singleton ..	5	2 0	...	32·54	189
,, ...	Mr. W. Garratt	5	1 0	182 R	28·84	...
D Willington	Rev. G. A. Smallwood	5	1 0	150 T	27·83	187
Derby (Findern)	Rev. B. W. Spilsbury..	5	0 9	186 R	30·01	...
D ,, (Etwall)	Mr. R. Giles	5	1 0	...	28·67	173
D ,, (Elvaston)	H. Chambers, jun. Esq	5	1 0	...	28·28	192
D Mickleover Manor	Mr. J. Campbell	5	2 0	200	31·81	148
D Derby (All Saints' Works)	Messrs. J. Davis & Son	5	1 0	174	29·31	175
D ,, (Midland Railway).....	W. Langdon, Esq.....	5	1 5	156 R	30·08	184
D ,, (Holmside, Hazelwood) ...	C. H. B. Hambly, Esq.	5	1 3	500 T	34·52	209
,, (,, ,,) M	,, ,, ,, ...	8	2 0	500 T	33·38	...
D ,, (Breadsall Lodge)	W. B. Woodforde, Esq	5	1 3	280 T	30·15	195
Belper (Chevin, Hazelwood).....	Sir J. G. N. Alleyne, Bart.	5	4 0	545	33·64	195
D ,, (Northfield).....	J. Hunter, Esq., C.E....	8	0 8	225	37·77	199
D Matlock (The Gables)	R. Wildgoose, Esq. ...	5	1 0	450 T	41·69	115

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
DERBY—(*con.*)						
†Matlock Bath	Mrs. Chadwick	5	1 6	500 T	36·49	...
D Stretton (Lindway Res.)	Mr. Peers	5	4 3	447 ⅄	24·83	168
D Stuffynwood Hall [Mansfield]	J. Paget, Esq.	5	1 3	389 ⅄	32·98	214
Chesterfield (Hardwick Hall)	Mr. Wilson	8	2 6	594 T	41·67	215
D Chatsworth Gardens	W. Chester, Esq.	8	5 0	425	40·13	197
D Chesterfield (Gas Works)	C. E. Jones, Esq., C.E.	5	1 0	279	31·35	185
,,	M. S. & L. R. Co.	9	3 6	248	29·76	181
D ,, (Linacre Reservoir)	C. E. Jones, Esq., C.E.	8	3 6	490 ⅄	31·50	175
D ,, (Tapton House)	Mr. G. Parkes..	8	1 4	...	31·87	132
D ,, (,, Grove)	M. F. Mills, Esq.	5	3 3	400	29·79	127
†Buxton (Devonshire Hospital)	The Royal Meteor. Soc.	5	1 0	986 ⅄	52·76	219
Stony Middleton	Mr. Wadlow	5	4 0	660	41·98	201
†Comb's Moss	M. S. & L. R. Co.	9	3 6	1669 T	40·22	...
† ,, Reservoir	,, ,, ,,	9	3 6	710 T	40·13	217
†Chapel-en-le-Frith	,, ,, ,,	9	3 6	965 T	43·00	198
†Killamarsh (Norwood)	,, ,, ,,	9	3 6	238 T	26·64	168
Norton [Sheffield]	Col. Creswick	6	0 9	700 T	32·40	...
Hathersage (Bamford)	W. C. Moore, Esq.	5	1 0	530 T	40·34	...
†Glossop (Spire Hollin)	F. Hawke, Esq.	8	0 10	612 T	46·34	...
Woodhead Station	M. S. & L. R. Co.	9	3 6	878 T	56·88	234

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESHIRE.							
D Baddiley (Nantwich W. W.)	Baldwin Latham Esq C.E.	5	1	0	231	32·80	160
D Nantwich (Dorfold Hall)	J. A. Saner, Esq., C.E.	8	1	6	190	33·49	167
Crewe	G. Eaton-Shore, Esq., C.E.	12	30	8	209 ⅄	25·36	...
Eccleston	E. Wells, Esq.	5	1	1	94 ⅄	31·53	200
D Congleton (Buglawton Vic.)	Rev. W. Besant	8	5	0	347 T	33·78	177
Bosley Reservoir	M. S. & L. R. Co.	9	3	6	590 T	33·38	201
,, Minns	,, ,, ,,	9	3	6	1210 T	35·49	206
Macclesfield (Wincle)	E. B. Smith, Esq., C.E.	5	3	0	500	42·01	182
D Chester (Rowton Grange)	T. R. Fleming, Esq.	5	1	0	164 B	30·02	189
D ,, (Christleton Hall)	Mr. T. Weaver	5	1	2	142 ⅄	32·36	202
D ,, (Waterworks)	A. Bell, Esq.	5	0	10	85 ⅄	30·53	191
,, (Northgate Station)	M. S. & L. R Co.	9	3	6	84 T	31·86	165
D† ,, (The Nurseries)	Messrs. Dicksons, Lim.	5	1	0	62 ⅄	32·59	182
Middlewich (Bostock Hall)	Col. France Hayhurst..	5	2	0	157 ⅄	33·76	153
D Siddington (Thornycroft Hall)	Mr. J. Harrison	5	3	0	377	33·21	204
D Macclesfield (The Park)	Mr. J. Dale	5	1	0	501 T	37·38	190
D Chelford (Astle Hall)	G. Dixon, Esq.	5	1	0	250 T	32·35	176
,, (,, ,,) M	,, ,, ,,	8	1	0	250 T	31·76	...
Northwich	M. S. & L. R. Co.	9	3	6	76 T	29·74	181
D ,, (Highfield)	J. A. Saner, Esq., C.E.	8	3	4	118 ⅄	31·65	193
D ,, (Winnington)	Mssrs Brunner Mond & Co	5	3	8	110 ⅄	30·23	228
,, (Wincham Hall)	H. Neumann, Esq.	8	2	0	120 T	31·94	194
D Macclesfield (Swanscoe Park)	T. C. Horsfall, Esq.	5	1	0	676 ⅄	39·30	210

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
			ft. in.	feet.	inches.	
CHESHIRE—(*con.*)						
D*Neston (Hinderton)	Reginald Bushell, Esq.	5	1 0	215 ⅄	32·60	196
* ,, (,,) .....M	,, ,, ,, ...	8	1 0	215 ⅄	32·67	...
* ,, (,, Lodge) ...M	,, ,, ,, ...	5	1 0	145 ⅄	31·66	...
Frodsham (Fox Hill).....	J. Reynolds, Esq.	5	0 10	330 T	32·01	185
D ,, (Dunsdale)	J. Simpson, Esq.	5	1 1	206	34·75	196
D Knutsford (Heath Side)	W. Tyrer, Esq.....	5	1 0	210	34·06	211
Bollington (Spond's Hill).....	M. S. & L. R. Co.	9	3 6	1279 T	36·35	...
Wilmslow (Southside)	G. Pearson, Esq.	8	1 0	255 T	34·44	176
,, (Poplar House).....	J. Holden, Esq.	5	1 0	237 T	32·98	181
†Whaley	M. S. & L. R. Co.	9	3 6	602 T	44·01	211
D Thurstaston (Dawpool).....	T. H. Ismay, Esq.....	...	...	...	31·63	139
D Runcorn (Weston Point)	J. A. Saner, Esq., C.E.	4	2 4	18	31·98	142
D West Kirby (Greenfield)	H. Bell, Esq.....	5	1 0	75 T	30·16	194
D Hill Cliffe [Warrington]	J. Marson, Esq.	5	1 0	159 ⅄	34·04	207
Bowdon (The Firs).....	R.Swindells, Esq., C.E.	5	0 8	215 ⅄	31·29	...
D ,, (Erlesdene)	E. J. Sidebotham, Esq.	5	1 0	211 ⅄	29·13	193
D Thelwall (Highfields)	T. G. Rylands, Esq. ...	5	1 0	118 ⅄	32·83	209
,, (,,) .....M	,, ,, ,, ..	5	1 0	118 ⅄	32·72	...
,, (Millington House)*old g*	L. W. Reynolds, Esq..	5	1 0	82 ⅄	34·64	198
D ,, (,, ,,)*new g*	,, ,, ,, ...	5	1 0	85 ⅄	34·18	198
D Lymm (Statham Lodge)	P. Stubs, Esq.	5	1 0	42 ⅄	32·57	199
,, (,, ,,) .....M	,, ,, ...	5	1 0	42 ⅄	32·56	...
Altrincham (Norman's Place) ...	A. Griffiths, Esq.	5	1 0	150 T	32·92	169
,, (Barrington House).	J. Newton, Esq., C.E.	8	3 0	105	33·00	...
D Cheadle (Harthill).....	R. A. Grundy, Esq. ...	5	1 0	142 T	32·22	185
D Hoylake (The Chase East)	J. F. Leigh Clare, Esq.	5	1 0	29 T	28·11	183
D†Birkenhead (Bidston Obs.)	Late J. Hartnup, Esq..	8	1 0	189 ⅄	31·64	194
D Northenden (Wythenshawe).....	T. E. Tatton, Esq. ...	5	1 0	114 T	33·08	178
Marple Top Lock	M. S. & L. R. Co.	9	3 6	543 T	37·89	204
,, Aqueduct	,, ,, ,, ...	9	3 6	321 T	37·70	204
New Brighton (Stanley Rock) ...	A. C. Abraham, Esq...	5	1 0	130 B	30·93	189
Godley Reservoir	G. H. Hill, Esq., C.E..	12	...	500	38·35	...
Newton	M. S. & L. R. Co.	9	3 6	396 T	36·78	186
Mottram (Hill End)	,, ,, ,, ...	9	3 6	680 T	42·09	211
,, (Matley's Field)	,, ,, ,, ...	9	3 6	399 T	42·62	193
D Hadfield (Millbrook).....	J. Sidebottom, Esq. ...	12	3 10	442 T	44·19	203
D ,, (,,).....	,, ,, ,, ...	8	3 10	442 T	43·71	203
Arnfield Reservoir..... ..	G. H. Hill, Esq., C.E..	12	2 6	550	46·01	...
†Rhodes Wood Reservoir	,, ,, ,, ...	12	1 0	520	50·14	...
†Torrside Reservoir.....	,, ,, ,, ...	12	1 6	680	50·98	...
Staleybridge (Swineshaw).....	,, ,, ,, ...	8	3 0	884 ⅄	62·90	...
†Woodhead Reservoir.....	,, ,, ,, ...	12	0 10	660	53·48	...
LANCASHIRE.						
D Garston (Grassendale Park).....	Miss E. C. Abraham ...	5	1 0	35 T	36·00	190
D Aigburth (Kelton).....	J. Sing, Esq.	5	1 0	150 T	34·79	185
D ,, (Holmfield)	Miss Maxwell.....	5	1 0	100 T	35·83	198
D Warrington (Howley)	T. Longdin, Esq.	10	0 10	19 ⅄	33·08	215

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued.*)

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	LANCASHIRE—(*con.*)						
D	Warrington (Training College)	Miss Feniman	8	0 9	34 T	30·01	198
	,, (Central Station)	M. S. & L. R. Co.	9	...	59 ⅄	31·13	173
	Liverpool (Grove Park)	J. R. Darsie, Esq.	3	6 0	160	32·72	179
D	,, (Hope Street)	G. Jevons, Esq.	5	1 0	150	31·80	197
	,, (Huskisson Station)	M. S. & L. R. Co.	9	...	40 ⅄	34·17	195
	Heaton Moor [Stockport] ...*old g*	F. W. Jordan, Esq.	5	1 0	235	34·57	205
D	,, ,, [,,] *new g.*	,, ,, ,,	5	1 0	235	35·45	205
D	Walton (Breeze Hill)	WHAndersson,jun,Esq	5	1 11	119 ⅄	35·39	188
D	Manchester (Withington) No. 2	J. King, jun., Esq.	5	1 3	110 T	32·65	183
D	,, (,,) No. 3	,, ,, ,,	8	1 6	110 T	32·26	183
D	,, (Stretford)	H. Royle, Esq., C.E.	5	1 0	86 ⅄	34·07	204
D	,, (,,)	A. E. Barker, Esq.	5	7 10	...	31·41	206
	,, (LadyBarn,Fallowfield)	Miss Herford	5	1 0	122 T	33·74	...
D	St. Helens (Eccleston Hill)	D. M. Gaskin, Esq.,C.E.	12	2 9	268	32·34	181
	Denton Reservoir	G. H. Hill, Esq., C.E.	...	...	324 T	35·52	...
	Gorton	,, ,, ,,	...	...	263 T	35·42	...
D	Manchester (Plymouth Grove)	J. F. Roberts, Esq.	5	4 2	150 ⅄	36·34	190
	,, (Embden Street)	J. Hart, Esq.	5	6 6	112 T	40·42	188
†	,, (Piccadilly)	M. S. & L. R. Co.	9	40 0	194 T	30·79	166
	,, (Fairfield)	,, ,, ,,	9	6 0	312 T	39·99	198
	,, (Alexandra Park)	J. Casartelli, Esq.	8	3 0	100 T	33·67	204
	Eccles (Worsley Hall)	Mr. W. B. Upjohn	8	8 6	80 L	30·94	144
	Blundellsands (Park Corner)	T. M. Reade, Esq. C.E.	5	1 0	33 ⅄	37·29	202
D	Manchester (Newton Heath)	J. Warren, Esq.	5	1 0	275 ⅄	41·38	206
D	,, (Cheetham Hill)	W.B.Worthington,Esq	5	0 11	255	38·33	210
	Ashton (Waterhouses)	M. S. & L. R. Co.	9	3 6	345 T	42·16	206
	Prestwich Asylum	The Meteor. Council	8	1 0	295	39·88	216
	,, Reservoir	G. H. Hill, Esq., C.E.	...	...	356 T	37·38	...
	†Oldham (Gas Works)	,, ,, ,,	5	4 0	600 T	44·41	...
	,, (Honeywell Lane)	M. S. & L. R. Co.	8	...	553	47·02	194
	,, (Brushes Clough)	G. H. Hill, Esq., C.E.	5	4 0	930 T	49·59	...
	,, (,, ,,)*New g*	,, ,, ,,	5	5 0	955 T	47·59	...
	Ormskirk (Aughton Springs)	G. Cooke, Esq.	5	0 6	150	38·12	...
D	Wigan Waterworks	W. Bolton, Esq.	8	1 6	225 T	37·29	186
	Bolton (The Folds)	W. H. Watson, Esq.	10	3 6	286 T	47·06	...
D	,, (The Park)	W. W. Midgley, Esq.	5	1 0	390 T	44·64	211
	,, (Heaton)	RHSwindlehurstEsqCE	6	1 3	500	38·80	233
D	,, (,,)	J. S. Holdsworth, Esq.	10	3 6	497 ⅄	44·43	197
D	,, (Ash Lawn, Heaton)	F. Taylor, Esq.	5	1 0	406	46·36	203
D	,, (Hurst Bank ,,)	J. Watkins, Esq.	5	3 10	442 ⅄	45·30	219
	,, (Halliwell Road)	W. Tyson, Esq.	5	1 6	470 B	50·42	192
	,, (Moss Bank)	R. H. Ainsworth, Esq.	8	1 6	575 ⅄	50·52	189
D	,, (Smithills Hall)	,, ,, ,,	8	1 2	507 T	48·99	181
	Bury (Gin Hall)	T. Rigby, Esq.	8	1 0	475	50·98	180
†	Milnrow (Piethorne, Kitcliff)	G. H. Hill, Esq., C.E.	5	4 0	767 T	36·22	...
	,, (,, Coldgreave)	,, ,, ,,	5	4 2	894 T	44·54	...
D	Rochdale (Deeplish Hill)	J. H Lancashire, Esq.	5	1 0	475 T	47·34	223
D	,, (Park Observatory)	Dr. Henry	8	0 8	472	50·22	224

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above Sea level feet.	Depth of Rain. 1891 inches.	Days on which ·01 or more fell.
LANCASHIRE—(*con.*)							
D Rochdale (Fieldhead)	S. S. Platt, Esq., C.E..	8	12	0	484 ⅄	48·36	206
D Ormskirk (Rufford)	J. Porter, Esq.	5	0	8	38 T	36·63	193
Bolton (Belmont)	RHSwindlehurstEsqCE	6	0	9	800	63·60	227
D Southport (Birkdale)	J. Baxendell, Esq.	5	1	0	29 T	35·26	190
,, (,,)M	,, ,,	5	1	0	29 T	35·27	...
Rochdale (Nayden Dean)	J. Diggle, Esq.	5	1	3	948 ⅄	47·61	...
D† ,, (Facit)	T. S. Smithson, Esq....	5	0	6	855 T	59·35	226
D Southport (Hesketh Park)	J. Baxendell, Esq. ...	5	2	8	23 ⅄	33·97	176
D ,, (,, ,,) *newg.*	,, ,,	5	1	0	22 ⅄	34·86	180
,, (Lord Street Station).	M. S. & L. R. Co.	9	...		21 ⅄	31·50	161
Entwistle	RHSwindlehurstEsqCE	7	1	0	700	60·60	239
Blackstone Edge (Hollingworth)	Rochdale Canal Compy‡	10	1	5	600	43·90	...
† ,, ,, (Windy Bank)	,, ,, ,,	10	1	6	600	46·10	...
† ,, ,,	,, ,, ,,	10	1	9	1225	38·20	...
† ,, ,, (Canal Summit)	,, ,, ,,	10	1	10	700	37·70	...
† ,, ,, (Chelbourn)	,, ,, ,,	10	1	3	800	43·80	...
,, ,, (Lenches)	,, ,, ,,	10	1	10	800	50·60	...
† ,, ,, (Calf Lee)	,, ,, ,,	10	1	6	960	42·70	...
Chorley (Crooke Hall)	Carlton Cross, Esq. ...	5	2	6	265 T	41·54	184
Haslingden (Holden Wood)	T. Rigby, Esq.	8	1	0	670	58·19	182
,, (Calf Hey)	,, ,,	8	1	0	800	55·85	182
Over Darwen (Sunnyhurst Hey).	W. Stubbs, Esq., C.E..	8	1	8	915 T	43·77	193
,, ,, (Earnsdale Res.)...	,, ,,	8	1	8	705	60·35	193
D ,, ,, (St. James's Vic.).	Rev. W. H. Blamire...	5	1	0	564 ⅄	53·62	180
,, ,, (Hoddlesden Res.)	J.B.McCallumEsq.,C.E	8	4	0	680	57·84	197
Blackburn (Guide Reservoir) ...	,, ,, ,,	8	1	0	650	39·66	196
D Goodshaw	Rev. A. Spencer	8	0	11	800 T	58·61	224
D Lytham (Woodville Terrace) *n g*	S. Stott, Esq.	5	0	8	...	34·83	198
Blackburn (Pleasington) ...M	J.B.McCallumEsq.,C.E	8	2	6	232 ⅄	46·00	...
,, (Witton)	,, ,, ,,	8	2	6	315 ⅄	44·98	183
,, (Store Yard)	,, ,, ,,	8	30	0	373 ⅄	34·95	167
,, (Water Works Office)	,, ,, ,,	8	60	0	436 ⅄	28·95	145
,, (Pumping Station) ...	,, ,, ,,	8	6	0	600 ⅄	38·84	181
Accrington (Milnshaw Grounds).	Mr. Hargreaves	5	1	6	464 ⅄	41·02	202
D Preston (Corporation Offices) ...	H. Reah, Esq.	8	16	0	123	40·39	170
†Rawtenstall (Clough Bridge Res.)	T. Rigby, Esq.	8	1	0	900 ⅄	53·02	217
Burnley Waterworks †Causeway Side	W. Williamson, Esq.	8	2	0	1116	49·93	...
Burnley Waterworks †Sheddin	,, ,, ,,	8	2	0	960	50·84	...
Burnley Waterworks †Cant Clough, S. Side	,, ,, ,,	8	2	0	900	50·53	221
Burnley Waterworks † ,, ,, N. Side	,, ,, ,,	8	2	0	900	47·20	221
Burnley Waterworks †Rams Clough Head	,, ,, ,,	8	2	0	1260	45·37	...
D Huncoat (Burnley Road Res.) ...	C. Harrison, Esq.	9	1	6	620 ⅄	47·10	202
Clayton-le-Moors (Oakenshaw)..	J. H. Calvert, Esq. ...	5	9	6	290 T	41·19	...
†Burnley (Yorkshire Street)	W. Williamson, Esq...	8	30	0	420 ⅄	46·84	210
† ,, (Swinden, Upper)	,, ,, ,, ...	8	12	0	820 ⅄	49·90	219
† ,, (,, Lower)	,, ,, ,, ...	8	2	0	745 ⅄	51·15	222
† ,, (Extwistle Moor)	,, ,, ,, ...	8	2	0	1310 T	50·94	...

‡ Returns supplied by C. R. Dykes. Esq.

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height above Ground.	Height above SeaLevel	Depth of Rain. 1891	Days on which .01 or more fell.
			ft. in.	feet.	inches.	
LANCASHIRE—(*con.*)						
D Preston (Haighton)	J. J. Myres, Esq., C.E.	5	1 2	255 ⅄	41·10	169
Alston	H. Reah, Esq.	8	1 2	320 ⅄	39·35	...
Blackpool (South Shore)	G. Sharples, Esq.	10	1 8	29 T	41·27	...
Kirkham (Weeton)	C. Arthur, Esq.	10	1 0	95 T	40·13	...
Nelson (Coldwell Reservoir)	J. Newton, Esq., C.E.	8	2 0	950	35·76	...
D Eccleston (Elswick Lodge) *old g.*	S. King, Esq.	10	1 4	50 T	38·09	182
,, (,, ,,) Field	,, ,, ,,	5	1 0	50 T	41·65	...
,, (,, ,,) ,,	,, ,, ,,	5	6 0	56 T	39·80	...
Stonyhurst College	Rev. W. Sidgreaves	11	1 0	376 ⅄	47·51	197
D ,, ,,	,, ,, ,,	11	2 0	377 ⅄	46·90	197
,, ,, M	,, ,, ,,	11	1 0	376 ⅄	47·09	...
Preston W. Works. Knowle Green	H. Reah, Esq.	8	1 2	400 T	37·85	...
Preston W. Works. Loud-scales	,, ,,	8	1 2	400 T	46·45	...
Preston W. Works. Spade Mill	,, ,,	8	1 2	400 T	38·80	...
Preston W. Works. Jeffrey Hill	,, ,,	8	1 2	900 T	45·45	...
D St. Michael's-on-Wyre Vic. No.3	Rev. P. J. Hornby	5	1 0	26 ⅄	40·55	193
D Beaton Fell (Barnsfold Res.)	J. J. Myres, Esq., C.E.	5	1 6	506 ⅄	42·41	206
,, (,,) M	,, ,, ,,	5	1 6	506 ⅄	42·34	...
D Garstang (Calder Mount)	Sydney Wilson	5	10 0	110 ⅄	40·00	183
,, (,, ,,) M	,, ,,	5	0 6	71 ⅄	42·41	...
Clitheroe (Downham Hall)	R. Assheton, Esq.	10	1 6	464 ⅄	41·91	...
Chatburn (Middlewood)	W. K. Wilkinson, Esq.	5	1 3	363 T	38·79	...
Garstang (Barnacre Reservoir)	C. Arthur, Esq.	10	1 0	617 ⅄	50·28	...
,, (Grizedale Reservoir)	,, ,, ,,	10	1 0	519 T	48·85	...
Wyresdale (Abbeystead)	J. Cook, Esq., C.E.	8	1 0	366 T	53·57	161
Quernmore (Old Gauge Basin) M	,, ,, ,,	8	1 0	963 T	41·12	...
Wyresdale (Wardstone) M	,, ,, ,,	8	1 0	1440 T	49·15	...
Quernmore (Brow Top)	,, ,, ,,	8	1 0	552 T	47·20	...
Lancaster (Marton Street Yard)	,, ,, ,,	8	1 9	70 ⅄	44·61	159
,, (Escowbeck, Caton)	A. Greg, Esq.	10	3 0	150 T	45·75	182
D ,, (Overton Vicarage)	Rev. W. J. Locke	5	1 0	65 T	39·59	175
Hest Bank	T. Ransome, Esq.	5	2 0	58 T	38·05	175
D Wray Vicarage	Rev. C. L. Reynolds	5	1 0	165 T	51·71	207
Melling (Hornby Castle)	Col. Foster	8	1 8	100	41·10	148
Barrow-in-Furness	W. Fergusson, Esq.	11	1 6	36 ⅄	40·46	187
Arkholme (Storrs Hall)	F. F. Pearson, Esq.	5	1 0	220	49·99	...
D Ulverston (Urswick)	Rev. R. B. Billinge	5	1 0	...	43·25	185
†Cartmel (Holker)	Mr. W. Fox	8	4 8	155 ⅄	44·75	203
Grange (Kents Bank House)	Eli Milnes, Esq.	5	1 0	20 T	43·87	166
,, (Nutwood)	Rev. E. Massie	5	2 6	100 B	45·22	205
D†Ulverston (Poaka Beck)	Mr. W. Fergusson	11	1 6	512 ⅄	53·01	225
D Cartmel (Pit Farm)	Mr. W. R. Nash	5	1 0	122 T	47·20	209
,, (Broughton Hall)	Col. Ainsworth	5	2 8	210 ⅄	50·26	203
D Ulverston (Colton)	Rev. A. Christopherson	5	1 0	226 ⅄	59·84	206
D Broughton-in-Furness	Rev. F. A. Malleson	5	1 3	40	61·36	173
D Blawith	Rev. J. Ashburner	5	0 10	185 T	63·20	207
D†Broughton (Woodland Rectory)	Rev. E. C. Shawfield	5	1 4	100 T	56·58	186

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft.	in.	Height Above Sea level feet.	Depth of Rain. 1891 inches.	Days on which ·01 or more fell.
LANCASHIRE—(*con.*)							
D Hawkshead (Grizedale Hall) ...	W.G.Ainslie,Esq.,M.P.	5	1	0	325	67·54	208
D ,, (Esthwaite Lodge).....	Major Alcock-Beck ...	5	3	6	232 T	72·45	218
,, (,, Strickland Ease)M	,, ,, ,, ...	5	3	6	254 T	64·48	...
D†Duddon Valley (Seathwaite Vic.)	Rev. S. R. M. Walker	5	1	0	330 T	88·47	221
D†Monk Coniston Park	Mr. Etty...	5	1	4	305 T	85·53	219
Hawkshead (Black Fell) .....M	S. A. Marshall, Esq....	5	1	6	1055 T	71·03	...
D Skelwith Fold [Ambleside]	,, ,, ,, ...	5	1	0	333	86·31	244
,, ,, [,,] ...M	,, ,, ,, ...	5	1	0	333	86·12	...

DIVISION IX.—YORKSHIRE.

WEST RIDING.							
†Sheffield (Brincliffe Rise)	A. W. Chadburn, Esq.	5	1	0	500 T	34·63	176
† ,, (,, Edge).....	M. S. & L. R. Co.	9	3	6	336 T	34·85	180
† ,, (Redmires)	E. M. Eaton, Esq., C.E.	10	5	0	1110 ⊼	43·16	222
,, (,,) ..... *weekly*	,, ,, ...	8	4	0	1110 ⊼	43·63	...
,, (Tylecote, Ranmoor) ...	J. Dixon, Esq.	10	3	6	610 ⊼	41·10	186
D ,, (,, ,,)*Snowdon*	,, ,, ...	5	1	0	610	37·76	186
D† ,, (Broomhall Park)	D. Doncaster, Esq.....	10	2	0	330 ⊼	33·93	199
,, (Rivelin).....	E. M. Eaton, Esq., C.E.	10	4	0	564 ⊼	40·22	205
,, (,,) ..... *weekly*	,, ,, ,, ...	8	4	0	564 ⊼	40·02	...
† ,, (Crookes).....	,, ,, ,, ...	10	2	0	629 ⊼	32·56	180
† ,, (,,) ..... *weekly*	,, ,, ,, ...	8	2	0	629 ⊼	32·55	...
,, (Shrewsbury Hospital)	Rev. A. T. Coore	8	1	0	330 T	32·83	...
D ,, (Weston Park)	E. Howarth, Esq.	8	1	0	430 ⊼	34·58	192
†Rotherham (Ulley Reservoir) ...	Mr. Newton	5	1	0	184 ⊼	22·94	...
†Sheffield (Victoria Station)	M. S. & L. R. Co.	9	3	6	188 T	27·19	178
† ,, (Tinsley Locks)	,, ,, ,, ...	9	...		143 T	26·65	166
Tickhill (Sandbeck Park)...	Mr. G. Summers.....	8	1	0	150 T	26·97	187
†Rotherham (Moorgate Grove) ...	R. Chrimes, Esq.	5	1	0	262 ⊼	26·24	186
,, (Thrybergh)	W.H.Crabtree,Esq.CE.	8	1	0	184 ⊼	25·43	180
D Tickhill	G. G. Phillips, Esq. ...	8	1	0	61 ⊼	24·62	189
D Sheffield (Chapeltown)	Mr. D. Bell.....	8	5	0	582 L	30·15	199
Doncaster (Firsby).....	W.H.Crabtree,Esq.C.E	8	1	3	189 ⊼	27·88	175
D ,, (Wadworth Hall)	Rev. J. C. Ross	8	1	0	...	26·86	188
,, (,, ,,)	,, ,, ...	5	1	0	...	26·74	188
D Bolsterstone (Waldershaigh) ...	C. M. Wilson, Esq.....	8	3	1	950 T	34·33	227
Wortley	M. S. & L. R. Co.	9	...		548	33·62	165
Elsecar	,, ,, ,, ...	9	...		175 T	25·65	166
D Wath-upon-Dearne (Chapel St).	Dr. Burman	8	1	0	185 ⊼	24·59	196
D ,, (West Melton)	W. Jackson, Esq.	6	0	10	172 T	23·39	146
Worsborough	M. S. & L. R. Co.	9	...		225 T	29·07	171
D Stainborough(Wentworth Castle)	W. Fisher, Esq.....	8	2	6	520 T	31·27	179
Doncaster	M. S. & L. R. Co.	9	...		35 T	25·98	195
,, (Pumping Station) ...	WHR.Crabtree,EsqCE	8	0	6	30 ⊼	27·18	157
D ,, (Magdalens)	Mr. J. Howorth	5	4	6	46 T	25·73	173
†Dunford Bridge Station	M. S. & L. R. Co.	9	3	6	954 T	57·12	197

DIVISION IX.—YORKSHIRE—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
WEST RIDING—(*con.*)						
†Dunford Bridge (Reservoir).....	G. H. Hill, Esq., C.E..	12	2 0	1100 T	56·32	...
Greenfield (Chew Mount).....	,, ,, ,, ...	...	...	...	58·10	...
,, (Yeoman Hey).....	,, ,, ,, ...	...	...	759	58·00	...
†Penistone (Carlcotes).....	M. S. & L. R. Co.	9	3 6	1075 T	44·28	208
† ,, ...	,, ,, ,, ...	9	3 6	717 T	36·80	190
,, (Hazlehead)	,, ,, ,, ...	9	...	868 T	50·24	185
D ,, (Ingbirchworth Res.)..	J. H. Taylor, Esq. C.E.	8	1 3	853 ⊼	46·69	201
D Holmbridge (Yateholme)	O. J. Kirby, Esq., C.E.	7	1 0	861 ⊼	70·30	163
,, (Holme Styes)	Mr. L. Hinchliffe	7	2 0	830	59·70	...
,, (Boshaw Whams) ...	,, ,, ,, ...	7	2 6	930	62·40	...
,, (Bilberry Reservoir)..	,, ,, ,, ...	7	2 6	820	71·20	...
D Barnsley (Church Street)	Dr. Sadler	5	5 2	350 ⊼	26·70	193
D ,, (Wellington Street) ...	J. H. Taylor, Esq., C.E.	8	15 0	350	27·11	172
,, ...	M. S. & L. R. Co.	9	...	175 T	25·19	174
†Saddleworth Station ..... M	L. K. Jones, Esq.....	5	4 2	630 T	50·10	...
Barnsley (Cawthorne)	Rev. C. T. Pratt.....	5	1 6	340 ⊼	32·32	178
Strinesdale [Oldham]	G. H. Hill, Esq., C.E..	5	4 0	815	39·55	...
†Meltham (Harden Moss)	J. W. Schofield, Esq....	8	1 2	1212 T	54·76	...
,, (,, ,,) *new g.*	,, ,, ,, ...	8	1 0	1212 T	57·40	...
Wessenden Head	,, ,, ,, ...	8	1 0	1270 T	60·52	...
,, (Holly Bank Moss) ...	,, ,, ,, ...	8	1 0	1360 T	?35·03	...
,, (Great Butterley) ...	,, ,, ,, ...	8	1 0	1110 T	45·36	...
,, (Bobus).....	,, ,, ,, ...	8	1 0	1200 T	45·04	...
Standedge (Castleshaw).....	G. H. Hill, Esq. C.E..	...	...	876 T	50·14	...
† ,, (Red Brook).....	L. K. Jones, Esq.	8	1 8	1150	52·84	...
†Meltham (Brow Grains)	J. W. Schofield, Esq....	8	1 0	900	56·59	...
Denshaw (Ox Hey)	G. H. Hill, Esq., C.E..	...	...	1030	48·48	...
,, (New Year's Bridge)...	,, ,, ,,	5	4 0	1012 T	48·03	...
,, (Ready Con Dean).....	,, ,, ,, ...	...	...	1414	44·65	...
Meltham (Royd Edge)	C. L. Brook, Esq.	8	1 0	585 T	59·47	...
D ,, (HarewoodLodge)*new g*	,, ,, ,, ...	8	1 0	510 L	52·07	215
† ,, Grange	J. W. Schofield, Esq....	8	1 2	850 T	46·53	...
†Marsden (Deer Hill)	,, ,, ,, ..	8	1 0	1149 T	53·82	...
,, (,,) .....*new g.*	,, ,, ,, ...	8	1 0	1149 T	55·22	...
Doncaster (Hatfield)	Mr. T. Askren	5	5 4	...	24·24	174
D ,, (Kirk Bramwith)	B.S.Brundell, Esq. C.E.	5	1 0	17 ⊼	24·66	197
D ,, (Owston)	H. Ripley, Esq.....	8	1 0	55 ⊼	25·64	181
D ,, (Burghwallis Rec.) ...	Rev. F. W. Peel.....	5	1 6	86 T	26·01	203
,, (,, ,,)M	,, ,, ,, ...	5	1 6	86 T	25·55	...
D†Slaithwaite (Blackmoorfoot).....	J. W. Schofield, Esq....	8	1 0	800 T	48·45	219
†Honley (Northgate House) ...M	Miss E. Brooke	5	1 0	350 T	41·12	...
Huddersfield (BankField,Golcar)	J. E. Ramsden, Esq....	5	1 0	400 T	49·25	201
D† ,, (Dalton)	J. W. Robson, Esq. ...	8	1 0	350 ⊼	37·82	204
Longwood (Bilberry Edge)	J. W. Schofield, Esq...	8	1 0	1090 T	37·64	..
D Pontefract (Purstone Hall)	P. C. Hall, Esq.....	5	1 0	190 T	24·52	190
D Mirfield (Cote Wall)	E. B. W. Balme, Esq..	8	0 9	200	30·67	171
D†Wakefield Prison	Dr. H. Clarke.....	8	1 0	96 ⊼	28·39	164
,, (Alverthorpe Hall) ...	H. Clarkson, Esq.	5	1 0	150 T	29·25	170

DIVISION IX.—YORKSHIRE—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above SeaLevel feet.	Depth of Rain. 1891 inches.	Days on which ·01 or more fell.
	WEST RIDING—(*con.*)							
D	Rastrick	late J. T. Clay, Esq....	5	1	3	410 T	33·84	175
	Pontefract (Fern Hill)	A. T. Barker, Esq. ...	5	2	0	120	23·68	...
D	Wakefield (Field Head)	R. Porter, Esq.	8	1	6	250 T	25·54	154
D	,, (Stanley Grange)	F. E. Haworth, Esq....	5	1	0	180 T	25·55	201
D	Goole	W. E. Grayburn, Esq.	5	1	0	18 T	22·75	176
	Batley (Staincliffe Reservoir)	O. J. Kirby, Esq., C.E.	7	1	0	492 ⊼	24·40	...
	Halifax (Bents, Norland) M	J. S. Rawson, Esq. ...	5	0	8	800 T	43·85	...
D	,, (BermersideObservatory)	J. Gledhill, Esq.	8	0	6	500	37·22	191
	,, (Thorpe) M	J. S. Rawson, Esq. ...	8	0	8	345 T	49·46	...
D	,, (,,)	,, ,, ,,	5	0	8	345 T	49·67	210
†	,, (Albert)	J. A. Paskin, Esq., C.E.	5	1	0	795 T	39·73	...
†	,, (Gibbet)	,, ,, ,, ...	5	6	0	568 T	37·45	...
†	,, (Ramsden Wood)	,, ,, ,, ...	8	1	2	816 T	45·20	...
D	Leeds (Methley Park)	J. Richardson, Esq. C.E.	5	0	9	98 ⊼	27·40	117
	Hebden Bridge	A. R. Crossley, Esq....	4	1	0	479	53·17	227
	Halifax (Castle Carr)	J. A. Paskin, Esq., C.E.	...	...		1060 T	44·93	...
†	,, (Midgley Moor) M	,, ,, ,, ...	7	0	6	1350 T	51·68	...
†	,, (Warley Moor) M	,, ,, ,, ...	7	0	6	1425 T	48·98	...
†	,, (Ogden) M	,, ,, ,, ...	8	1	3	990 T	50·62	...
	,, (Ovenden)	,, ,, ,, ...	...	...		1375	50·81	...
	,, (Widdop)	,, ,, ,, ...	...	...		1050	53·96	...
†	,, (Walshaw Dean) M	,, ,, ,, ...	8	0	3	1380 T	50·25	...
D	South Milford Rectory ...	Rev. F. J. Young	5	1	2	60 ⊼	25·50	198
	Leeds (Wortley Res.)	T. Hewson, Esq., C.E..	8	0	9	307 ⊼	30·37	185
	Bradford (Queensbury)	R. J. Foster, Esq.....	8	2	2	1050	40·76	143
	,, (Brayshaw Reservoir)	J. Watson, Esq., C.E..	5	1	0	982 ⊼	38·13	203
D	,, (The Exchange)	A. E. Preston, Esq, C.E.	8	65	6	395 ⊼	27·30	190
	,, (Stubden) *old gauge* ...	J. Watson, Esq., C.E..	8	1	0	1075 ⊼	53·84	257
	,, (,,)	,, ,, ,, ...	5	1	0	1071 ⊼	48·90	257
	,, (Stairs) M	,, ,, ,, ...	5	1	0	1401 ⊼	55·76	...
	,, (Leeming Res.) M	,, ,, ,, ...	5	1	0	850 ⊼	49·63	...
	,, (Doe Park) *old gauge* ..	,, ,, ,, ...	8	1	0	810 ⊼	48·67	239
	,, (,, ,,)	,, ,, ,, ...	5	1	0	811 ⊼	?41·36	239
	,, (Leeshaw Res.) M	,, ,, ,, ...	5	1	0	875 ⊼	52·78	..
	,, (Chellow Dean)	,, ,, ,, ...	5	1	0	645 ⊼	34·35	193
	,, (Hewenden Res.) *old g.*	,, ,, ,, ...	5	1	0	700 T	43·74	211
	,, (,, ,,)	,, ,, ,, ...	5	1	0	701 ⊼	39·38	211
	,, (Heaton Res.) *old g.*	,, ,, ,, ...	8	1	0	530 ⊼	34·57	199
	,, (,, ,,)	,, ,, ,, ...	5	1	0	531 ⊼	33·00	197
D	Leeds (Holbeck)	Messrs. J. Rhodes & Co.	10	32	0	127 ⊼	24·23	152
D	,, (,, W. WorksDepot)	T. Hewson, Esq., C.E..	8	0	9	93 ⊼	26·92	191
D	,, (Museum)	E. R. Waite, Esq.....	10	46	0	180	25·16	201
	,, (Woodhouse Moor)	T. Hewson, Esq., C.E.	8	0	9	307 ⊼	27·26	193
D	,, (,, Cliff)	R. Reynolds, Esq.....	5	1	0	330	28·01	207
D	,, (Elmete Hall, Roundhay)	J. H. Kitson, Esq.....	5	1	6	400 T	27·66	186
	,, (Weetwood Reservoir)	T. Hewson, Esq., C.E.	8	0	9	328 ⊼	27·01	185
	Shipley (Moor Head)	G. Knowles, Esq.	8	10	0	500	28·91	...
D	Leeds (Allerton Hill)	T. Fenwick, Esq., C.E.	5	0	7	418 ⊼	27·48	201

DIVISION IX.—YORKSHIRE—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
			ft in.	feet.	inches.	
WEST RIDING—(*con.*)						
Leeds (Lawns Wood, Adel)	Mr. C. S. Irvine	5	1 0	475 T	28·36	...
D ,, (Oliver Hill, Horsforth)	C. France, Esq.	3	0 9	250 T	29·14	191
Bingley (Gilstead Filters)	J. Watson, Esq., C.E.	5	1 0	572 ⅄	30·35	211
Leeds (Eccup South)	T. Hewson, Esq., C.E.	8	0 9	390 T	29·04	201
,, (,, East)	,, ,, ,,	8	0 9	375 ⅄	29·01	190
†Bingley (Sunnydale)	J. Watson, Esq., C.E.	5	1 0	975 T	35·68	184
Harewood (Arthington)	T. Hewson, Esq., C.E.	8	0 9	139 ⅄	26·55	161
D Boston Spa	Rev. P. M. Eastman	5	1 0	...	25·45	185
Skipton (Gill Grange, Silsden) M	J. Watson, Esq., C.E.	5	1 0	883 T	34·28	...
D Ilkley	G. W. Worfolk, Esq.	5	3 0	312 L	37·78	194
† ,, (Cherry Bank)	H. Richardson, Esq.	8	1 3	600	38·63	156
Skipton (Silsden Reservoir)	J. Watson, Esq., C.E.	5	1 0	560 ⅄	33·55	191
Leathley (Lindley Wood S)	T. Hewson, Esq., C.E.	8	0 9	312 T	30·88	208
,, (,, ,, N)	,, ,, ,,	8	0 9	320 T	30·64	207
Slaidburn (Hareden Brook) M	H. Reah, Esq.	8	1 2	540	70·74	...
,, (Langden Brook) M	,, ,,	8	1 2	556	71·84	...
,, (Whiteholme)	W. K. Wilkinson, Esq.	5	1 3	475 T	58·41	187
Skipton (Cringle's Reservoir)	J. Watson, Esq., C.E.	5	1 0	760 T	34·31	191
,, (Counter Hill) M	,, ,, ,,	5	1 0	951 ⅄	32·03	...
,, (Chelker Reservoir) M	,, ,, ,,	5	1 0	730 ⅄	35·44	...
† ,, (*Craven Herald* Office)	E. Townsend, Esq.	8	0 8	360	34·25	168
Slaidburn (Dunsop Houses)	J. B. McCallum Esq., C.E	8	1 0	450 T	67·39	171
,, (Middle Knoll)	,, ,, ,,	8	2 6	1298 ⅄	60·50	...
,, (Brennand)	,, ,, ,,	8	1 0	820 ⅄	76·17	193
,, (Whitendale)	,, ,, ,,	8	1 0	830 ⅄	78·85	193
,, (Cabin Hill) M	,, ,, ,,	8	3 1	1559 ⅄	68·80	...
,, (Baxton Fell) M	,, ,, ,,	8	2 6	1540 ⅄	57·40	...
York (Phil. Soc. Gardens)	The Meteor. Council	8	1 9	53 ⅄	23·75	196
,, (,, ,, ,,)	,, ,, ,,	8	1 9	53 ⅄	23·76	198
,, (Cherry Hill)	H. Richardson, Esq.	5	1 6	60 T	22·66	194
D Wetherby (Ribston)	Mr. Jones	5	1 2	130 ⅄	25·07	121
Fewston (Swinsty E)	T. Hewson, Esq., C.E.	8	0 9	460 T	35·33	200
,, (,, W)	,, ,, ,,	8	0 9	425 T	37·89	200
,, (Timble)	,, ,, ,,	8	0 9	720 T	34·36	221
,, South	,, ,, ,,	8	0 9	525 T	35·31	218
,, North	,, ,, ,,	8	0 9	525 T	32·72	216
,, (Spinksburn)	,, ,, ,,	8	0 9	636 T	30·97	207
Blubberhouses	,, ,, ,,	8	0 9	575 T	37·88	214
D† Harrogate (Bog Valley Gardens)	J. H. Wilson, Esq.	5	1 0	...	28·16	211
D ,, (Skipton Road)	Mr. Gledhill	...	...	...	30·08	212
D ,,	,, ,,	...	...	...	31·00	209
Skipton (Barden Res.) *old g.*	J. Watson, Esq., C.E.	8	1 2	746 ⅄	44·57	234
,, (,, ,,)	,, ,, ,,	5	1 0	746 ⅄	42·55	233
Otterburn-in-Craven	W. Gomersall, Esq.	5	1 0	510 ⅄	44·48	179
West End	T. Hewson, Esq., C.E.	8	0 9	787 T	43·00	221
,, ,, (Thruscross)	,, ,, ,,	8	0 9	900 T	37·42	219
Skipton (Upper Res., Barden)	J. Watson, Esq., C.E.	5	1 0	1250 ⅄	36·50	231
,, (Thorpe Fell ,,) M	,, ,, ,,	5	1 0	1661 ⅄	35·78	...

DIVISION IX.—YORKSHIRE—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above Sea Level feet.	Depth of Rain 1891 inches.	Days on which ·01 or more fell.
WEST RIDING—(*con.*)							
Knaresborough	Mr. G. Paul	5	1	0	214 T	26·70	199
† ,, (Conyngh'm Hall)	B. T. Woodd, Esq.	5	1	2	190 T	25·56	169
D ,, (Farnham)	R. Elmhirst, Esq.	5	1	0	170 ⊼	25·21	189
D Ripley Castle	Mr. J. Tunnington	5	1	0	230 T	28·35	202
D Settle (The Terrace)	J. W. Shepherd, Esq.	8	1	2	525 ⊼	50·27	225
D† Pateley Bdg. (Castle Stead)	G. Metcalfe, Esq.	5	1	0	410	42·21	193
,, ,, (Grimwith Res) *old g.*	J. Watson, Esq., C.E.	8	1	0	890 ⊼	46·28	216
,, ,, (,, ,,)	,, ,, ,,	5	1	0	893 ⊼	46·40	216
,, ,, (,, Trunla Hill) ...M	,, ,, ,,	5	1	0	1201 ⊼	36·18	...
Pateley Moor (Smaden Head)	T. Hewson, Esq., C.E.	8	0	9	793 ⊼	28·84	186
D† Malham Tarn	Mr. Coulthard	5	1	0	1296 ⊼	61·35	235
Dallow Moor (High Skeldon)	T. Hewson, Esq., C.E.	8	0	9	719 ⊼	34·45	206
,, ,, (Harper Hill)	,, ,, ,,	8	0	9	859 ⊼	35·38	179
†Ripon (North Lodge)	F. D. Wise, Esq.	5	1	0	120	27·67	126
D ,, (W.W. Lumley Moor)	Mr. G. Craggs	8	2	0	582 T	36·15	180
†Ramsgill (Raygill House)	J. Watson, Esq., C.E.	5	1	0	925 T	57·93	226
,,	,, ,, ,,	5	1	0	450 T	46·67	207
† ,, (Bouthwaite)	,, ,, ,,	8	0	6	520 T	52·27	212
D† Arncliffe Vicarage	Rev. Canon Boyd	8	3	0	734 T	61·68	218
,, (Amerdale)	late J. Hammond, Esq.	8	1	6	730	62·17	...
†Nidderdale (Middlesmoor)	J. Watson, Esq., C.E.	8	0	9	930 T	54·34	224
,, (East Gill)	,, ,, ,,	5	1	0	1710 T	60·05	...
,, (High Riggs)	,, ,, ,,	5	1	0	1010 T	55·59	215
,, (Rain Stang)	,, ,, ,,	5	1	0	1470 T	51·45	...
,, (West Houses)	,, ,, ,,	5	1	0	1150 T	70·99	148
,, (New Houses)	,, ,, ,,	5	1	0	755 T	50·30	200
Kirkby Malzeard (Drovers' Inn)	T. Hewson, Esq., C.E.	8	0	9	633 ⊼	35·84	185
,, ,, (Hawset)	,, ,, ,,	8	0	9	820 ⊼	38·87	211
,, ,, (Hambleton Hill	,, ,, ,,	8	0	9	1106 ⊼	41·97	...
,, ,, (Bagwith Brae)	,, ,, ,,	8	0	9	697 ⊼	36·66	217
,, (Stone and Ears Wham)	,, ,, ,,	8	0	9	1118 ⊼	45·06	...
D Ripon (High Bank, Mickley)	Miss Harrison	5	1	0	225 T	32·64	205
Masham Moor (Benjy Guide)	T. Hewson, Esq., C.E.	8	0	9	1412 ⊼	49·93	...
,, ,, (W. Somerside)	,, ,, ,,	8	0	9	960	41·52	161
,, ,, (High Sour Mire)	,, ,, ,,	8	0	9	884 ⊼	38·92	202
,, ,, (Leighton)	,, ,, ,,	8	0	9	636 ⊼	40·96	189
,, ,, (Low Houses)	,, ,, ,,	8	0	9	693 ⊼	40·38	179
Oughtershaw Hall	C. H. L. Woodd, Esq.	8	1	6	1175 T	70·45	217
D† Sedbergh (Brig Flatts)	J. Handley, Esq.	5	1	0	300 T	61·23	205
† ,, (Thorns Hall)	Miss Sedgwick	5	1	0	400 T	62·90	201
EAST RIDING.							
Patrington (Spurn Head)	The Meteor. Council	8	1	0	27	18·28	177
D ,,	W. B. Pugh, Esq.	5	3	0	46 ⊼	23·31	145
Hull (Nelholme, Ferriby)	W. R. King, Esq.	5	5	0	125 T	26·71	...
D ,, (Tranby Park)	G. Bohn, Esq., C.E.	5	1	0	161 ⊼	27·65	207
,, (Westcott Street)	Rev. H. P. Slade	5	5	0	8	27·36	...
D ,, (Derringham)	W. Lawton, Esq.	5	2	2	10 ⊼	25·33	186

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1891 inches.	Days on which ·01 or more fell.
EAST RIDING—(*con.*)							
D Hull (Pearson Park)...	Mr. E. Peak	5	0	6	6	26·55	202
D Hedon (The Vicarage)	Rev. J. H. Richardson	5	1	0	...	23·51	184
Brough (Brantinghamthorpe) ...	Mr. R. C. Kingston	5	2	0	150 T	32·47	...
Market Weighton (Houghton)...	Canon J. Wells	5	1	0	175 T	24·25	...
D Beverley (East Riding Asylum).	Dr. Macleod	5	1	0	175 T	24·88	192
,, (Alexandra Terrace)...	T. Dyson, Esq.	12	6	0	64 ⩚	24·76	154
D ,, (Hull Bridge).....	J. Tiffen, Esq.	5	2	6	11 ⩚	25·21	193
D Market Weighton (Dalton Hall)	Mr. J. Allsop	8	1	4	150 T	27·98	183
Middleton-on-the-Wolds	Rev. H. D. Blanchard..	5	1	0	150 T	27·61	198
D Brandesburton (Hempholm).....	J. Tiffen, Esq.	5	2	6	11 ⩚	23·13	210
D Pocklington (Warter)	J. Coxon, Esq.	5	1	10	230 T	29·17	175
D Driffield (Beverley Road).....	Rev. J. T. Harwood ...	8	8	0	68 T	24·32	192
D ,, (York Road) *Snowdon*.	J. Lovel, Esq.	5	1	0	76 T	26·55	195
Wetwang	Rev. E. M. Cole	5	1	0	235 T	27·78	164
D Thixendale	Rev. W. H. Fox	10	0	10	425 T	32·69	195
D Lowthorpe (The Elms)	H. Onslow Piercy, Esq.	5	1	0	63 ⩚	25·85	168
Malton (Norton).....	E.K. Spiegelhalter, Esq.	5	1	0	66 T	25·50	...
Hunmanby (Wold Newton).....	Rev. T. S. Ackland ...	5	1	6	194	34·02	...
NORTH RIDING.							
†Old Malton	H. Hurtley, Esq.	10	1	0	75 T	24·53	...
Melmerby (Baldersby)	W. Gregson, Esq.	5	1	0	101 T	24·84	159
D Thirsk (Sowerby)	C. M. Swarbreck, Esq..	5	1	0	105 T	24·93	164
D Pickering (The Rectory)	Rev. G. H. Lightfoot..	5	1	6	150	27·12	183
D Bedale (Thorpe Perrow)	Mr. W. Culverwell ...	5	1	6	170	26·65	164
†Hawes Junction.....	The Meteor. Council ...	8	1	0	1135	73·13	223
†Aysgarth Vicarage..... M	Rev. F. W. Stow	3	1	0	644 T	43·30	...
,, ,, ...	,, ,, ...	8	1	0	647 T	41·85	...
D ,, (Carperby)	J. Willis, jun., Esq....	6	1	0	720 T	43·82	204
†Leyburn	G. W. Wray, Esq.....	7	1	0	660 T	38·68	237
† ,, (Bolton Hall) ..... M	Mr. E. Hall.....	8	0	8	420	35·71	...
† ,, (,, ,,)	,, ,, ...	5	1	0	420	35·90	135
Seamer (Irton)	W. Millhouse, Esq. C.E.	8	...		94	29·74	164
Scarborough (Osgodby).....	,, ,,	8	...		166	24·37	123
D ,, (West Bank)	W. Robinson, Esq.....	8	1	0	160 B	27·27	200
D†Hawes (Hardrow Vicarage)	Rev. R. Pinck.....	5	1	0	790 ⩚	47·32	225
,, (Beckside, Lunds)	,, ,, ...	5	1	0	1100	71·40	...
Catterick (Tunstall)	J. Marshall, Esq.	5	1	0	275	24·78	...
Northallerton (Osmotherley).....	T. Yeoman, Esq.	8	0	8	650	25·79	...
Richmond (The Grove)	G. Roper, Esq.	5	1	3	...	36·59	...
Northallerton (Rounton Grange).	The Royal Meteor. Soc.	8	1	0	250	26·44	193
Robin Hood's Bay (Fylingdales Vic)	Rev. R. J. Cooper	5	0	5	120	32·63	...
Ingleby Manor	The Hon. H. Sidney ...	5	0	11	440 T	36·83	179
D ,, Greenhow Vicarage.....	Rev. J. Hawell	5	1	0	448 T	34·18	191
D East Layton [Darlington]	Mrs. Proud.....	5	1	0	575 T	30·71	160
D Stanwick Park[,,]	Mr. W. Higgie	5	1	1	300	32·04	187
D Forcett Park [,,]	J. Michell, Esq.	5	1	0	360 T	32·66	210
Whitby (Guisborough Road) ...	M. Simpson, Esq.	5	2	0	184 ⩚	22·81	135

DIVISION IX.—YORKSHIRE—(*continued.*)

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	NORTH RIDING—(*con.*)						
	Whitby (Royal Crescent)	T. Newbitt, Esq.	8	1 6	145 T	24·18	158
	Bowes	G. J. Symons, Esq. F.R.S	8	1 0	950	33·90	...
	Guisborough (Hutton Hall)	Sir J. W. Pease, Bt., M.P.	5	1 3	400 T	31·74	168
D	,, (LockwoodBeckRes)	W. I'Anson, Esq., C.E.	8	1 0	632 ⊼	35·77	178
D	Middlesborough (Albert Park)	J. M. Parnaby, Esq.	8	2 0	30	24·32	183
D	Mickleton	G. J. Symons, Esq. F.R.S	8	...	...	33·45	...
†	,, (Lime Kiln Pasture) M	,, ,, ,,	8	1 0	1175 T	34·40	...
†	,, (,, ,, ,,) M	,, ,, ,,	8	1 0	1175 T	38·05	...
	DIVISION X—NORTHERN COUNTIES.						
	DURHAM.						
D	Darlington (Hurworth Grange)	J. E. Backhouse, Esq.	5	1 0	161 ⊼	26·15	189
D	,, (Elcott, Hurworth)	Rev. W. E. Stewart	5	1 0	121 T	25·57	198
	,, (Dinsdale Rectory)	Rev. J. W. Smith	5	2 0	54	26·71	159
	Egglescliffe [Yarm]	Rev. Canon Powell	5	1 0	...	?18·52	121
D	Darlington (South End)	Mr. N. Black	8	0 10	140	25·93	181
D†	,, (Cleveland Parade)	S. Hare, Esq.	5	1 0	160 T	25·14	186
D	,, (Hummersknott)	Mr. J. Short	5	1 0	...	27·35	180
D	,, (Brinkburn)	Mr. H. Waud	8	1 6	165	25·81	143
D	Barnard Castle (Whorlton)	Miss Dodgson	5	0 11	424 T	29·37	163
D	,, ,, (County School)	E. Wells, Esq.	5	1 6	540 T	32·62	190
	†Staindrop (Raby Castle)	Mr. W. Hards	8	1 0	460 T	29·74	121
	Stockton (Howden House)	W. Anderson, Esq., C.E.	5	1 0	150 T	22·05	171
D	Bishop Auckland (Mt. Pleasant)	E. Lingford, Esq.	...	...	408	29·50	189
	,, ,, (The Castle)	Mr. J. Larkin	5	1 0	300	30·23	168
D	Witton-le-Wear (Witton Tower)	W. R. I. Hopkins, Esq.	5	0 8	420 T	31·24	150
	West Hartlepool (Lynn Street)	Mr. H. Lamb	5	30 0	45	21·51	163
D	Hartlepool (Heugh Lighthouse)	W. Belk, Esq., C.E.	5	0 6	34 ⊼	21·60	190
D	,, (Hurworth Burn)	T. Fenwick, Esq., C.E.	5	0 7	360	28·71	167
	,, (Hart Reservoir)	,, ,, ,,	8	0 9	164	?19·83	146
D†	Wolsingham	Mr. A. Mitchell	5	1 0	464 ⊼	39·49	207
	Tow Law	G. Hood, Esq., M.D.	5	4 0	1014	34·40	...
	Durham	The Meteor. Council	12	4 0	340	24·55	193
D	,, (Ushaw College)	Rev. J. Corbishley	5	0 10	600 ⊼	29·64	179
	Weardale W.W. (Waskerley 6)	R. Askwith, Esq., C.E.	8	4 2	1229 ⊼	36·60	...
	,, ,, (,, 3)	,, ,, ,,	8	4 6	1433 ⊼	36·95	...
	,, ,, (,, 4)	,, ,, ,,	8	4 7	1321 ⊼	36·70	...
	,, ,, (,, 5)	,, ,, ,,	8	4 2	1244 ⊼	37·16	...
	,, ,, (,, 2)	,, ,, ,,	8	4 5	1367 ⊼	36·03	...
	,, ,, (,, 1)	,, ,, ,,	8	4 4	1317 ⊼	35·40	...
D	Seaham Harbour Cemetery	Mr. R. Leith	8	1 6	150	24·92	184
	,, Vicarage	Rev. A. Bethune	5	0 6	80 T	24·18	...
	,, Hall	Mr. R. Draper	5	1 0	100 ⊼	26·28	...
	Houghton-le-Spring (Myre Hall)	D. Balfour, Esq., C.E.	5	1 0	261 T	29·89	180
D	Shotley Bridge	Mr. J. Coulson	5	0 8	345 T	30·02	149
D	Sunderland (W. Hendon Ho) No. 5.	T. W. Backhouse, Esq.	5	1 0	130 ⊼	23·84	168

DIVISION X.—NORTHERN COUNTIES.—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above SeaLevel feet.	Depth of Rain. 1891 inches.	Days on which ·01 or more fell.
	DURHAM—(*con.*)							
D	Sunderland (Fever Hospital) ...	Dr. Harris	8	0	8	109 T	24·79	160
D	Gateshead (Eighton Cottage) ...	Miss Favell.....	5	3	1	515	27·31	175
D	,, (Southdene Tower) ...	R. C. Clephan, Esq. ...	5	0	11	150	23·40	191
	NORTHUMBERLAND.							
D	Haltwhistle(ShaftHl HerdleyBk)	Mr. R. Hetherington...	5	0	9	626 T	37·96	133
D	,, (Unthank Hall) ...	Rev. Dixon Brown.....	5	0	9	380 T	32·83	181
D	Ovingham (W. Tyne Colliery)...	J. K. Guthrie, Esq. ...	8	2	0	179 ⅄	29·99	199
D	Haydon Br.(Ridley-Beltingham)	Rev. G. Reed	5	2	8	340 T	33·04	182
D	Newcastle (Clifton Road).....	R. Foster, Esq.	8	1	6	314 ⅄	25·98	165
	,, (Philos. Society)	H. Richardson, Esq. ...	8	55	0	160 T	23·67	...
	,, (Gladstone Terrace)...	W. Smurthwaite, Esq.	2	6	0	156 T	26·53	...
	,, (Portland Road)	Mr. T. Bone	4	9	6	...	25·68	...
D	,, (Town Moor)	A. Wright, Esq.	5	2	0	201 ⅄	28·57	172
D	,, (Wellburn, Jesmond).	W. H. Holmes, Esq....	5	2	0	161 T	29·44	130
	North Shields (Wallsend).....	R. R. Dees, Esq.	10	0	6	100 ⅄	26·64	...
	,, (Post Office)	The Meteor. Council ...	8	1	4	100	22·51	159
D	,, (Tynemouth)	P.J.Messent, Esq., C.E.	5	1	8	65 ⅄	22·41	171
	,, (Monkseaton).....	T. Green, Esq.	5	4	0	132	23·23	...
	Bingfield House.....	J. H. Straker, Esq. ...	5	1	0	445 T	28·14	180
Newcastle and Gateshead W. Works	Whittle Dean	G. Smith, Esq.	10	...		...	25·84	...
	Swinburn (Woodford).....	,, ,, ,, ...	10	0	6	500 ⅄	32·33	...
	North Tyne (Green Crag) ...	,, ,, ,, ...	10	0	6	800 ⅄	31·99	...
	,, ,, Valley	,, ,, ,, ...	10	0	6	300	28·92	...
	Hallington	,, ,, ,, ...	10	0	6	469 ⅄	30·53	...
	,, (Fawcett)	,, ,, ,, ...	10	0	6	563 ⅄	29·83	...
	Gunnerton Burn (Camphill)..	,, ,, ,, ...	10	0	6	676 ⅄	29·17	...
D	Morpeth (Meldon Park)	Mr. J. Finlay.....	5	1	0	...	32·12	179
D	,, (Bothalhaugh Garden)..	Hon. & Rev. W. C. Ellis	5	0	10	35 ?	28·34	190
D	,, (,, Lawn)....	,, ,, ,, ...	5	0	10	135	26·41	173
	,, (,, ,,) M	,, ,, ,, ...	5	0	10	135	25·97	...
	Redesdale (Horsley)	G. Smith, Esq.	8	...		...	36·30	...
	Rothbury (Brinckburn)	A. Cadogan, Esq.	8	1	2	257 T	29·97	...
	,, (Cragside)	Lord Armstrong, C.B..	8	1	0	400 ⅄	36·17	122
	Redewater (Blakehope).....	G. Smith, Esq.	8	...		...	43·33	...
	,, (Ellis Crag)	,, ,, ...	8	...		...	35·74	...
	,, (Chattlehope)	,, ,, ...	8	..		...	42·84	...
	,, (Catcleugh)	,, ,, ...	8	...		...	42·50	...
D	Alwinton (Harbottle Castle) ...	Mr. R. Elliott	5	1	0	500	34·58	164
	,, (Biddleston Hall)	P. Dodds, Esq.	5	1	0	820 T	34·65	152
	Alnwick Castle	The Meteor. Council ...	5	0	4	178	31·66	156
	,, (Glanton Pyke)	F. W. Collingwood, Esq.	8	4	4	517	33·93	...
D	Howick Hall	Rt. Hon. Earl Grey, K.G.	8	0	10	121 ⅄	25·77	153
	Ilderton (Lilburn Tower).....	E. J. Collingwood, Esq.	10	6	0	300 T	28·80	...
	Cheviot (Broadstruther) .....M	G. P. Hughes, Esq. ...	8	4	0	1694	61·38	...
	Wooler	Dr. R. Walker	5	...		176 T	30·14	...
	Belford (Chatton Vicarage)	The late R. Bell, Esq..	5	1	0	...	27·86	...
D	Bamburgh	Mr. W. C. Good	5	1	0	75 L	23·03	145

DIVISION X.—NORTHERN COUNTIES—(*continued*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
			ft. in.	feet.	inches.	
NORTHUMBERLAND—(*con.*)						
D Pawston [Coldstream]	B. P. Selby, Esq.	8	1 0	328 T	31·74	183
Wooler (Milfield)	G. Grey, Esq.	5	0 6	215 ⅄	26·88	...
,, (,, Hill)	,, ,,	5	4 6	695 ⅄	20·27	...
CUMBERLAND.						
D Millom (Leyfield)	Cedric Vaughan, Esq CE	5	1 2	81	45·33	200
D†Duddon Valley (Ulpha Vic.)	Rev. W. Kewley	5	1 3	175	78·65	215
Ravenglass (The Grove)	J. Ross, Esq.	5	2 6	80 ⅄	48·72	141
,, (Irt Side, Holm Rook)	J. D. Watson, Esq.	10	3 6	...	41·48	...
D Eskdale	Rev. R. H. Snape	5	1 0	150?	70·45	204
D Seascale (Whinthwaite)	Dr. Hellon	5	1 0	52 ⅄	37·28	174
D Nether Wasdale Vicarage	Rev. J. Baker	5	0 11	183 T	58·01	203
Braystones	W. H. Watson, Esq.	10	3 6	36	39·46	...
Scawfell Pike M	G. J. Symons, Esq. F.R.S.	4	0 6	3200	110·50	...
Sprinkling Tarn M	,, ,,	4	0 6	1985	136·60	...
Wastdale Head M	,, ,,	4	0 6	204 T	81·51	...
Styehead Tarn M	,, ,,	4	0 6	1472 T	121·50	...
†The Stye M	,, ,,	4	0 6	1077 T	166·40	...
† ,, ,, ...*New S.E. gauge* M	,, ,,	4	1 0	1077 T	153·68	...
Gable Hawes M	,, ,,	8	...	1077 T	81·00	...
Egremont	J. Sherwen, junr., Esq.	5	1 0	170 T	52·67	236
†Seathwaite M	G. J. Symons, Esq., F.R.S.	4	0 6	422 T	145·55	...
D† ,,	,, ,,	5	1 0	423 T	147·19	225
,,	The Royal Meteor. Soc.	5	0 10	422 T	145·08	225
*† ,, M	John Marshall, Esq.	5	1 0	420 T	140·97	...
Ullscarf M	G. H. Hill, Esq., C.E.	7	1 0	2100 T	125·40	...
D Whitehaven (The Flosh, Cleator)	D. Ainsworth, Esq. M.P.	5	1 11	208 T	53·46	151
†Wythburn Vicarage	Rev. Basil R. Lawson.	5	1 0	574 T	121·68	...
†Helvellyn (Birkside) M	G. H. Hill, Esq., C.E.	7	1 0	1900 T	96·70	...
†Wythburn M	,, ,, ,,	7	1 0	580 T	108·10	...
D Borrowdale Vicarage	Rev. Dr. Taylor	5	1 0	330 T	123·82	225
D†Buttermere (Hassness)	Mr. S. Stewart	5	1 0	355	124·93	225
D†Borrowdale (Grange)	Mr. Threlkeld	5	0 9	271 T	110·50	217
Armboth	G. H. Hill, Esq., C.E.	7	1 0	550 T	90·40	...
,, Fells (The Pewitts)	,, ,, ,,	7	1 0	1650 T	105·80	...
Helvellyn (Whiteside)	,, ,, ,,	7	1 0	2100 T	98·20	...
†Whitehaven (Irish Street)	Dr. I'Anson	5	1 1	21 ⅄	47·33	157
D†Keswick (Barrow House)	Miss Langton	8	0 6	282 ⅄	89·64	234
Loweswater (Waterend)	Mrs. Jackson	5	1 0	432 T	64·22	153
Ullswater (Hallsteads)	A. Marshall, Esq.	5	2 0	497 T	66·87	...
†Keswick (Deer Close)	John Marshall, Esq.	7	1 9	300 T	69·05	221
† ,, (Derwent Island) ...*old*	,, ,, ,,	5	0 7	280 T	64·51	235
,, (,, ,,) ...*new*	,, ,, ,,	5	0 6	290	68·76	238
D† ,, (Bank)	J. F. Crosthwaite, Esq.	8	6 4	270 T	74·26	246
† ,, (,,)	,, ,, ,,	5	1 0	265 T	71·95	246
D ,, (The Beeches)	T. Paulin, Esq	5	1 0	...	74·33	227
D† ,, (Shu-le-crow)	A. Mitchell Ivison	5	0 7	296 T	75·97	222
D ,, (Bassenfell)	Mrs. Rathbone	8	1 0	384	45·34	193

DIVISION X.—NORTHERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above SeaLevel	Depth of Rain. 1891	Days on which .01 or more fell.
			ft. in.	feet.	inches.	
CUMBERLAND—(*con.*)						
D Cockermouth (Whinfell Hall) ...	W. Robinson, Esq. ...	5	2 0	265 ⅄	60·40	227
D ,, (Brandlingill)	Col. F. R. Sewell	5	1 0	320 ⅄	59·47	214
†Threlkeld Rectory	Rev. J. Brunskill	5	4 0	488 T	68·59	208
Bassenthwaite (Mire House) ...	Lady Jane Spedding ...	5	0 6	300 T	57·91	183
D†Cockermouth (Higham)	Miss Hoskins	5	1 0	478 ⅄	49·71	212
D ,, (BroughtonGrange)	G. S. Wilson, Esq. ...	5	1 3	209 ⅄	45·37	186
Penrith (Culgaith Vic.)	Rev. G. W. Atkinson..	5	0 10	500 T	35·28	...
D ,, (Nandana)	G. Varty Smith, Esq...	5	5 0	650 T	34·60	195
† ,, (Fell Lane, Fir Bank) ..	H. Lester, Esq.	5	1 0	575 T	38·26	194
,, (Greystoke)	A.TremayneBuller,Esq	5	...	700	50·04	...
D† ,, (Newton Reigny)..... ..	T. G. Benn, Esq.	8	1 0	580 ⅄	44·82	203
† ,, (,, ,,)....M	,, ,, ,, ...	8	1 0	580 ⅄	44·92	...
D ,, (Edenhall Vicarage) ...	B. W. Lovejoy, Esq....	5	1 4	310 T	36·12	206
,, (Kirkland Vicarage) ...	Rev. A. Edwards	5	1 0	640	39·08	...
D†Blencowe School.....	T. Fawcett, Esq.	8	0 9	601 B	46·58	210
D Penrith (Nunwick Hall)	Mrs HeywoodThompson	5	1 0	297 T	34·20	190
Maryport (Netherhall)	H. P. Senhouse, Esq...	8	0 6	27 ⅄	32·90	129
D Kirkoswald (Melmerby)	Rev. A. C. Pittar . ..	5	0 8	...	38·14	202
D Mealsgate (Uldale Rectory)	Rev. J. Greenwood ...	5	1 4	550	52·41	176
Hesket Newmarket	Mr. J. Wilson	5	1 0	600 T	45·05	17
D Aspatria (Brayton Hall)	Mr. W. Stewart.....	6	2 0	200	43·61	184
D ,, (Brookfield)	M. Lidbetter, Esq.....	5	0 9	124 ⅄	38·67	219
Carlisle (Wreay Vicarage)	Rev. T. Lees	5	2 0	310 T	35·34	202
D† ,, (Cemetery)	S. Cartmell, Esq.	8	3 0	114 ⅄	32·64	172
,, (Rickerby House)	M. MacInnes, Esq.....	8	1 0	50 T	30·42	...
,, (Castletown).....	Mr. A. Smith.....	5	1 6	...	28·69	...
,, (Scaleby)	The Royal Meteor. Soc.	5	1 0	112	36·91	192
D Brampton (Denton House)	Mr. J. Charlton	5	1 5	541 ⅄	35·42	190
,, (,, ,,) ...M	,, ,, ...	5	1 2	541 ⅄	35·54	...
WESTMORELAND.						
D Arnside	J. P. Drewett, Esq. ...	5	0 6	20	42·30	179
Kirkby Lonsdale (Casterton) ...	R. S. Clarke, Esq.	8	1 0	305	55·86	...
Witherslack (Halecote)	Rev. Canon Cross	5	1 0	100 T	51·00	169
D Kendal (Natland Park).....	Mrs. Shipley	5	1 0	260 T	56·05	196
,, (Hill Top).....	C. J. Holdsworth, Esq..	5	1 0	560 B	54·99	194
,, (Kent Terrace).....	R. J. Nelson, Esq.....	5	4 0	146 T	53·89	203
,, ,, (Hawesmead)	G. F. Braithwaite, Esq.	8	0 6	175 ⅄	52·04	206
,, (Ellergreen)	J. Cropper, Esq.	5	1 0	270 T	60·73	225
D Bowness (Fallbarrow)	H. E. Rawson, Esq....	8	1 0	135 T	67·86	205
D Windermere (Woodland Terrace)	Rev. T. Mackereth ...	5	6 5	376	60·41	225
D Longsleddale	Mrs. Burrows.....	5	6 0	512 T	78·01	227
Ambleside (Skelwith Bridge) ...	S. A. Marshall, Esq....	5	...	...	90·12	...
Little Langdale (Fell Foot) ...M	,, ,, ,, ...	5	2 2	380	116·60	...
D†Ambleside (Nook Cottage)	Mr. E. Hird	5	1 0	227 ⅄	84·61	227
† ,, (Lesketh Howe)	F. M. T. Jones, Esq....	5	2 6	175 T	88·29	222
Elterwater	S. A. Marshall, Esq. ...	...	...	187	98·48	228
D Dungeon Ghyll	,, ,, ,, ...	5	0 5	310	123·36	234

DIVISION X.—NORTHERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
WESTMORELAND—(*con.*)						
Dungeon Ghyll .. .. M	S. A. Marshall, Esq....	5	1 6	311	122·35	...
Mickleden .....M	,, ,, ,, ...	5	1 6	490	129·45	...
D†Grasmere (High Close)	E. B. W. Balme, Esq...	8	0 9	553 T	94·92	223
D ,, (Pavement End)	T. A. Green, Esq.	5	1 0	214 T	102·08	233
D Ravenstonedale (Brownber)	J. Fothergill, Esq.....	5	3 0	826 T	52·04	179
Orton Vicarage	Rev. E. Holme	5	3 6	770 T	64·96	191
D†Kirkby Stephen	H. Paul Mason, Esq....	5	1 0	574 T	50·75	211
Fairfield ..... M	T. A. Green, Esq.	5	1 0	2860 T	98·88	...
D Asby (Town Head)	Mr. J. Clemmet	5	1 0	685 T	50·95	215
Grisedale (Ruthwaite Lodge) M	Mr. A. Milne	8	1 6	1750	126·55	...
D†Patterdale Hall	,, ,, ...	7	1 3	490 T	105·32	231
† ,, (Greenside Mine).....	Mr. T. Taylor.....	7	1 6	1000 T	112·01	...
D†Appleby	Dr. Armstrong	5	1 0	442 ⅄	39·84	197
D ,, (Castle Bank).....	C. R. Rivington, Esq...	5	1 2	440 T	39·48	195
Ullswater (Swarth Fell) .....M	G.J.Symons,Esq. F.R.S.	5	1 3	1000 T	65·80	...
D Lowther Castle [Penrith]	Mr. F. Clarke	8	3 6	750 T	48·71	181
Barton Hall [Penrith]	J. H. Cumpston, Esq...	5	...	...	52·22	...

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

MONMOUTH.						
Rumney (Tredelerch)	*Western Mail*	...	...	...	42·10	...
D†Marshfield (Llwynarthan)	F. G. Evans, Esq.....	5	1 1	72 B	45·81	193
D Portskewett (Sudbrook)	T. D. Roberts,Esq.,C.E.	8	2 0	33 T	35·49	164
Newport	J. H. Canning, Esq. ...	5	1 6	100 T	48·39	...
D ,, (Crindau House).....	T. Dyne Steel, Esq.C.E	...	1 6	66	48·84	197
D Chepstow (Shirenewton Hall) ...	E. J.Lowe,Esq., F.R.S.	8	1 0	530 T	50·78	193
D ,, (The Mount).....	H. A. Smith, Esq.....	5	1 0	150	42·16	193
D Llanfrechfa Grange	F. J. Mitchell, Esq. ...	5	4 0	326 ⅄	49·44	172
Tredunnock	Rev. C. T. Salusbury...	5	2 3	170 ⅄	47·21	190
D Chepstow (Piercefield Park).....	H. Clay, Esq.....	5	1 6	270	43·40	181
D ,, (Itton Court).....	E. Curre, Esq.	8	4 0	390	47·19	211
Abersychan.....	E. Cooke, Esq.	5	1 0	620 ⅄	63·00	186
D Tredegar (Bedwellty House) ...	J. Colquhoun, Esq. ...	8	1 0	972 ⅄	72·99	183
D ,, (The Willows)	G. A. Brown, Esq.....	8	1 0	1024 T	74·15	190
Blaenavon Gas Works.....	C. White, Esq.	5	0 9	980	67·11	...
D Monmouth (The Hendre).....	H. A. Rolls, Esq.	8	1 0	176 T	36·15	193
Abergavenny (Larchfield)	Dr. Glendinning	5	1 0	240 B	44·82	194
,, (Dyne House)	Dr. Steel.....	5	1 3	220	47·71	199
D ,, (The Chain).....	W. Baker Gabb, Esq...	5	1 0	250	48·66	219
D Llantilio Court	Sir H. M. Jackson, Bt.	5	0 10	207 ⅄	40·69	134
D Llanvihangel Court	Col. Sturt	5	2 4	508 ⅄	43·93	196
,, ,, ... M	,, ,, ...	5	2 4	508 ⅄	44·84	...
D Monmouth (Pentwyn)	Rev. J. T. Harding ...	5	1 0	191 B	37·25	169

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height above Ground. ft.	in.	Height above Sea Level feet.	Depth of Rain. 1891 inches.	Days on which ·01 or more fell.
GLAMORGAN.							
* Cowbridge (Fonmon Castle).....	O. H. Jones, Esq.	8	1	2	130	42·22	183
Cardiff (Cogan Pill, Landough)..	J.A.B.Williams,EsqCE	5	1	0	122 ⊼	38·95	175
D ,, Castle	Mr. A. Pettigrew	5	1	0	38 ⊼	43·79	189
D Porthcawl (The Rest)	G. Evans, Esq.	5	1	0	60	39·01	163
Cowbridge (Ash Hall)	D. Owen, Esq.	8	1	0	315 ⊼	50·60	190
D Cardiff (Ely)	J.A.B.Williams,EsqCE	8	1	0	53 ⊼	48·23	191
,, (Lisvane)	,, ,, ,,	5	1	0	136 ⊼	43·90	198
,, (New Filters, Heath)....	,, ,, ,,	5	1	0	132	48·77	195
,, (Llanishen Res.)	,, ,, ,,	5	1	0	155	46·24	199
Gower (Penmaen)	Miss Bostock	6	1	0	300 T	53·10	185
D Oystermouth (Newton)	Rev. S. Jones	5	0	9	279 T	52·97	217
D Swansea (Sketty)	T. T. Wood, Esq.	5	1	0	281	57·21	200
D ,, (South Dock Lock).....	J. Dixon, Esq.	12	14	9	40	48·81	181
D Pontypridd	W. Hogg, Esq.	8	1	6	258	71·42	200
D ,, (The Reservoir).....	W. Jones, Esq.	5	1	0	300	67·60	164
D Neath	E.C. Pole, Esq.	5	1	0	204 ⊼	61·35	199
D ,, (Fairy Land)	E. Ll. Green, Esq. ...	5	1	9	170 B	61·05	211
D† ,, (Glyncorrwg)	T. F. Brown, Esq., C.E.	5	4	6	717 B	108·16	219
D Mountain Ash (Maesydderwen)..	M. Morgan, Esq.	5	1	0	483 ⊼	73·04	212
Treherbert	Sir W. T. Lewis, C.E...	5	1	0	670	106·94	229
D Castell Llwchwr (Penllergare)...	SirJ.T.D.Llewellyn,Bt.	5	3	0	240 T	61·61	194
Neath (Cadoxton W.W.)	J.A.B.Williams,Esq CE	5	1	0	22	37·57	156
D Rhondda (Castell-nos Res.)	W. Jones, Esq.	5	0	4	1110	94·19	166
Aberdare (The Mardy)	Sir W. T. Lewis, C.E...	5	2	2	431 ⊼	78·33	181
D† ,, (Abernant).....	Evan Jones, Esq.	5	1	0	425	77·30	180
D Felindre (Lliw Reservoir).....	R. H.Wyrill, Esq., C.E.	8	1	3	426 T	66·08	200
D Merthyr Tydfil (PlymouthWks.)	T. H. Bailey, Esq. ...	5	0	6	497	71·79	169
Dowlais (Cwm Bargoed)	G. A. Lundie, Esq., C.E.	5	1	0	1237 ⊼	52·38	202
D Ystalyfera (Tan-yr-allt)	D. H. Lewis, Esq.....	8	1	6	300 L	71·24	177
CARMARTHEN.							
Llanelly (Old Market Place) ...	G. Watkeys, Esq., C.E.	5	10	0	35 T	53·30	193
,, (Cwmlliedi W.W.).....	,, ,, ,, ...	5	3	0	240 ⊼	59·97	221
Tegfynydd [Narberth]	H. S. Morgan, Esq. ...	5	1	0	158 ⊼	55·15	147
D†Carmarthen (Joint Co. Asylum)..	Dr. Hearder	8	1	0	189 ⊼	59·34	212
Llandilo (Dynevor Castle)	Rt. Hon. Lord Dynevor	8	1	0	202 T	66·86	186
D Llandovery.....	J. Watkins, Esq.	5	1	0	217 T	58·61	221
PEMBROKE.							
Pembroke (Stackpole Court).....	Rt.Hon. Earl of Cawdor	6	1	6	60 ⊼	44·68	195
St. Ann's Head	The Meteor. Council ...	8	0	8	150	40·15	210
D Haverfordwest (Picton Castle)...	Sir C. Philipps, Bart...	5	1	0	100	47·45	168
D* ,, (High Street) ...	E. P. Phillips, Esq. ...	5	1	0	95 T	51·13	214
D St. David's.....	Dr. W. P. Propert.....	5	1	0	216	35·94	198
D Castle Malgwyn [Llechryd]	Mr. W. Ward	5	1	0	...	48·83	162
CARDIGAN.							
D Troedyraur Rectory	Rev. R. J. Lloyd	5	1	0	140?	43·69	180

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft in.	feet.	inches.	
CARDIGAN—(*con.*)						
D Aberaeron (Dolaeron)	T. H. Maddy, Esq. ...	5	1 11	50	40·86	184
Aberystwith	The Royal Meteor. Soc.	8	1 0	60	29·35	192
D ,, (Gogerddan)	Sir Pryse Pryse, Bart..	5	1 0	80 B	49·88	173
BRECKNOCK.						
†Nanthir Reservoir [Aberdare]	O. Williams, Esq.	5	1 0	860 ⅄	73·18	217
D Colbren (Penwyllt)	Mr. G. Palmer	5	1 0	1108	89·68	181
D Taff Fechan (Pentwyn Res.)	T. F. Harvey, Esq., C.E.	5	1 0	1120	75·56	226
,, ,, (,, ,,)...M	,, ,, ,, ...	5	1 0	1120	76·11	...
†Cardiff W W (Cwm Taff Fawr No5)	J A B Williams, Esq. C.E.	5	1 0	1143 ⅄	74·45	...
† ,, ,, (,, ,, ,, No1)M	,, ,, ,, ...	5	1 0	2350 T	89·39	...
,, ,, (Cantreff Res.) ...	,, ,, ,, ...	5	1 0	1120	78·22	218
,, ,, (Cwm Taff Fawr No6)	,, ,, ,, ...	5	1 0	1328 ⅄	100·71	216
D Taff Fechan (Neuadd Res.)	T. F. Harvey, Esq., C.E.	5	1 0	1460	76·47	226
,, ,, (,, ,,) ...M	,, ,, ,, ...	5	1 0	1460	77·76	...
Crickhowel (Glanusk Park)	S. H. Cowper Coles, Esq.	5	1 0	280	50·40	165
Brecknock (Cantreff Rect.)	Rev. J. J. Evans	5	1 0	630 T	61·36	179
D ,, (Llandefaelog-fach)..	Rev. W. Williams	5	1 1	660	48·06	222
Hay (Gwernyfed Park)	Major Wood	5	1 0	350 T	37·36	196
D Builth (Llanwrtyd Wells)	Miss Jones ...	5	1 0	680 T	64·50	217
,, (Abergwessin Vic.)	Rev. J. Jones	5	1 0	904 ⅄	78·91	239
Newbridge (Llysdinam)	Mrs. Lister Venables...	5	1 3	640 T	40·23	205
RADNOR.						
Glasbury (Woodlands)	A. Battiscombe, Esq....	5	1 0	300 T	35·44	189
D Disserth (Glanhowey)	Rev. A. W. Powell ...	8	1 0	700 ?	45·62	231
D New Radnor (Downton)	Col. Pearson	5	0 8	712	44·77	207
,, ,, (Ednol)	Mr. W. Jones	5	1 0	950	49·23	210
Llandegley (Gwern-i-Arglwydd)	Mr. J. Campbell	5	2 0	1000	45·68	218
D Pen-y-bont	Mr. J. Hamer	5	3 6	788	40·48	201
D Rhayader (Nantgwillt)	R. L. Lloyd, Esq.	5	1 0	768 ⅄	69·53	232
MONTGOMERY.						
†Llangurig (Esgair Clochfan) M	G. J. Symons, Esq., FRS	5	1 2	1330	68·50	...
† ,, (Ystrad-olwyn-fawr) ...M	,, ,, ,, ,,	8	1 0	950	57·20	...
D Newtown (Dolfor)	W. B. Pugh, Esq.	5	0 3	1027 T	43·47	211
D Churchstoke (Mellington Hall)..	P. Wright, Esq.	5	1 6	540 ⅄	34·17	194
,, (,, ,,)M	,, ,, ,, ...	5	1 6	540 ⅄	34·43	...
D†Carno (Tybrith)	Miss Marsh	5	1 0	595 T	50·92	207
Welshpool (Powys Castle)	Mr. Lambert	8	1 2	...	36·65	...
D ,, (Park Lane)	Mrs. Hawksworth	5	1 0	280	36·42	177
Garthbibio (Bwlch Tomlyd) ...	G. J. Symons, Esq., FRS	5	1 2	1370	99·80	...
D Welshpool (Pool Quay Vic.)	Rev. R. J. Roberts ...	5	1 0	300	31·67	191
Meifod (Tanyfron)	A. George, Esq.	5	1 2	...	33·65	...
D Lake Vyrnwy	H. J. Marten, Esq. C.E.	5	0 7	770	67·80	222
FLINT.						
D Hawarden	Dr. Burlingham	5	1 0	245 T	34·48	212
†Flint (Soughton Hall, Northop).	J. Scott Bankes, Esq...	5	1 0	418	33·98	189

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	ft. in.	inches.	
FLINT—(*con.*)						
St. Asaph (Nantllys)	P. P. Pennant, Esq. ...	5	1 0	173 ⅄	28·75	...
D† Halkyn	Capt. Williams	5	1 3	895 ⅄	33·71	182
D Holywell (Bagillt)	H. T. Barker, Esq. ...	5	1 6	20 T	31·97	200
D Rhyl (Sedgley House)	W. T. Girdlestone, Esq.	5	2 6	21 ⅄	25·88	168
D ,, Vicarage	Late Rev. Canon Evans	5	0 4	...	29·19	208
DENBIGH.						
Ruabon (Penycae Reservoir) ...	G. E. Woodford, Esq...	5	1 0	660 T	33·07	118
D ,, (Wynnstay)	Mr. Middleton	5	1 6	484 ⅄	42·67	208
Llangollen (Plas Berwyn)	Col. Tottenham	5	0 5	440	47·42	182
Cerrig-y-druidion	C. S. Mainwaring, Esq.	5	1 0	905 T	51·04	192
Wrexham (Pack Saddle Res.) ...	F. Storr, Esq. ...	5	0 9	370 ⅄	39·30	174
,, (Cae Llwyd Res.) ...	,, ,, ,,	8	0 9	918 ⅄	43·38	195
,, (,, ,, ,,) ...	,, ,, ,,	5	0 9	918 ⅄	43·08	195
D ,, (Is-y-coed)	Rev. L. Wickham	8	1 2	110 T	30·92	151
,, (Brymbo)	G. Shrubsole, Esq.	5	1 0	675	38·34	180
D Rosset (Trevalyn Hall)	Capt. Griffith Boscawen.	5	1 0	58 ⅄	30·83	190
D Llangerniew (Hafodunos)	H. R. Sandbach, Esq...	5	1 0	512 T	49·84	172
Penbedw [Nannerch]	Mr. W. McMurray	8	0 6	650 T	39·26	...
D Denbigh (Garn)	W. D. W. Griffith, Esq.	5	1 0	457 T	34·81	177
Dolben [St. Asaph]	T. G. Dixon, Esq.	5	1 2	...	34·53	210
Trefnant (Maes Elwy)	Major Birch	5	2 0	200 T	29·51	194
D Colwyn Bay (Nant-y-Glyn) ..	A. O. Walker, Esq. ...	5	1 0	180 ⅄	34·77	175
,, (Bryn Euryn)	Mr. T. Hutchings	5	1 0	125 T	32·37	175
MERIONETH.						
+ Dolgelly (Werngoch)	O. Hill, Esq.	5	1 6	465 T	81·70	...
D Bala (Eryl Arran)	Mrs. Wilson	8	1 0	590 T	63·18	193
D Llanderfel (Palé Gardens)	Mr. T. Ruddy	8	1 0	606 ⅄	57·00	231
D Blaenau-Ffestiniog (Cefn-faes) ...	E. Parry Jones, Esq. ...	8	0 10	748 ⅄	95·25	190
D Rhiwbryfdir = Oakley Quarries..	Mr. R. Roberts	5	10 0	1100	102·67	169
D Corwen (Rhug Gardens)	Mr. J. Bennett	5	1 0	500	42·46	184
CARNARVON.						
*Llanystumdwy (Talarvor)	Dr. J. Roberts	5	2 0	49	37·45	198
Llandwrog (Glynllivan Park) ...	Hon. F. G. Wynn	5	1 0	100	55·59	...
,, (,, Garden) ...	,, ,,	5	1 0	170	58·79	221
,, (,, Fort)	,, ,,	8	1 0	180	55·36	...
D Llanberis (Glyn Padarn)	Major Allen	6	5 0	370	141·09?	196
Carnarvon (Belan Fort)	Hon. F. G. Wynn	5	1 0	15	39·22	...
D ,, (Cocksidia)	J. Jackson, Esq.	5	1 0	120	47·75	197
,, (North Road)	W. T. Morgan, Esq. M.D.	5	1 0	60	45·33	...
Llanbedr-y-Cennin	T. T. Marks, Esq., C.E.	8	1 0	535 ⅄	69·90	...
,, ,, (Llyndulyn).	,, ,, ,, ...	8	1 6	1622 T	129·55	180
Llanfairfechan	R. Luck, Esq.	5	0 8	150 B	47·42	192
D† Llandudno (Warwick House) ...	Dr. Nicol	8	0 8	99 ⅄	32·83	168

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Heigth Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	ft. in.	inches.	
ANGLESEA.						
D Llangadwaladr (Bodorgan)	Mr. J. Gray	8	3 6	...	42·12	137
Holyhead	The Meteor. Council ...	8	...	...	38·50	204
LlanerchymeddLlwydiarthEsgob	T. Prichard, Esq.	5	1 0	112 L	45·49	204
ISLE OF MAN.						
Castletown (Langness)	Bd. of Northern Lights	...	...	...	31·96	...
Derbyhaven	A. W. Moore, Esq.....	5	1 0	20	33·90	...
D Douglas (Derby Square)	P. Killey, Esq.	5	1 1	78	40·22	185
D ,, (Victoria Road)	H. Story, Esq.	5	9 0	160 L	47·56	184
,, (Prospect Hill)	A. W. Moore, Esq. ...	5	1 0	85	41·68	175
,, (Cronkbourne)	,, ,, ...	8	0 10	138 ⅄	47·55	182
,, (Clypse, Onchan)	,, ,, ...	8	1 0	439 T	48·17	202
The Dhoon	,, ,, ...	5	1 0	450 T	56·25	...
Bishops Court.....	,, ,, ...	...	...	...	41·22	183
Ramsey	,, ,, ...	8	1 3	18	35·82	178
Point of Ayre.....	Bd. of Northern Lights	...	...	...	22·47	..
ISLES OF SCILLY.						
St. Mary's	The Meteor. Council ...	8	1 6	77 L	36·91	199
,, ...	W. L. Fox, Esq.	...	...	...	35·53	199
D†Tresco Abbey	T. A. D. Smith, Esq...	12	3 0	40	42·00	186
JERSEY.						
St. Helier (Hastings Terrace) ...	W. L. Lancaster, Esq.	5	1 0	21 L	31·54	149
St. Aubins (Noirmont)	The Meteor. Council ...	8	1 0	270	35·62	...
GUERNSEY.						
D Les Ruettes Brayes (Le Hechet)	A. Collenette, Esq. ...	5	1 0	255 L	38·09	195
,, ,, (,, ,,)	,, ,, ,, ...	5	1 0	255 L	38·55	...
D Villa Carey.....	Dr. Carey	8	1 7	180	33·41	186

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
WIGTON.						
Mull of Galloway	Bd. of Northern Lights	...	...	...	31·65	158
D Garliestown (Galloway Ho.)	Mr. J. Day	5	4 6	20 ?	36·90	147
Stoneykirk (Ardwell House)	M.J.Stewart,Esq.,M.P.	8	1 0	125	35·79	...
D Newton Stewart (Corsbie)	The Hon. Mrs. Stewart	6	0 10	100	47·96	175
Loch Ryan Lighthouse	Bd. of Northern Lights	...	...	...	46·16	106
Corsewall	,, ,, ,, ...	...	3 4	22 ?	27·75	119
KIRKCUDBRIGHT.						
Little Ross	Bd. of Northern Lights	...	3 3	130 ?	29·15	108
D Kirkcudbright (Senwick)	A. J. Corrie, Esq.	5	1 0	113 ⅄	40·40	204
,, (,,) M	,, ,, ,, ...	5	1 0	113 ⅄	39·74	...
St. Mary's Isle	Mr. Browning	5	0 4	...	46·58	...
Auchencairn (Torr House)	W. Ovens, Esq.	5	0 8	30	45·83	...
Dalbeattie (Colvend Manse)	Rev. J. Fraser	5	1 6	120 T	40·09	...
Gatehouse (Cally)	Dr. Buchan	5	1 0	140	50·06	194
*Dalbeattie (Station Road)	Mr. W. McBride	5	1 1	50	51·88	121
Castle Douglas (Slogarie)	H. A. Timms, Esq.	5	1 0	300	55·61	...
D Cargen [Dumfries]	P. Dudgeon, Esq.	5	0 4	80 ⅄	47·66	163
D New Galloway (Glenlee)	Mr. W. Melville	5	1 3	208	60·37	222
Irongray (Drum park) *old g.*	D. J. Kay, Esq.	3	0 6	230	58·86	...
,, (,, ,,)	,, ,,	5	1 0	230	54·86	...
Dalry (Dalshangan)	T. R. Bruce, Esq.	8	0 6	500	48·75	...
Carsphairn(Holm of Dalquhairn)	R. McMillan, Esq.	5	1 2	800	62·11	...
DUMFRIES.						
D Dumfries (Ivy Bank)	Rev. W. Andson	5	0 10	70 T	42·92	200
Canobie (Byreburnfoot)	W. Doughty, Esq.	3	0 8	160	?49·50	...
Langholm (Westwater)	W. Elliot, Esq.	5	1 6	550 T	64·28	...
,,	Mr. D. Elder	5	1 0	270 ⅄	59·50	187
Moniaive (Glencrosh)	R. McMillan, Esq.	5	1 2	350	61·23	192
,, (Maxwelton House)	Rev. Sir E. Laurie, Bt.	8	1 2	400 ⅄	51·30	169
Langholm (Ewes School)	Mr. J. C. Lyall	3	1 0	445 T	58·50	...
,, (,, Burnfoot)	J. C. Little, Esq.	3	1 0	541 ⅄	62·45	...
Durrisdeer (Drumlanrig Castle)	Mr. D. Thomson	3	1 0	191 T	?41·70	...
Moffat (Craigielands)	J. Smith, Esq.	5	0 9	360 ?	56·90	...
,, (Ericstane)	J. J. Welsh, Esq.	3	0 6	550	56·65	...
ROXBURGH.						
New Castleton (The Flatt)	J. Elliot, Esq.	3	0 9	350 T	51·10	...
Hawick (Wolfelee)	J. T. S. Elliot, Esq.	5	0 6	587	43·63	171
,, (Branxholme)	W. E. Lockhart, Esq.	5	0 6	457 ⅄	38·48	162

DIVISION XII.—SOUTHERN COUNTIES (*continued*).

STATIONS.	AUTHORITIES.	Rain Guage. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell
			ft. in.	feet.	inches.	
ROXBURGH—(*con.*)						
D*Jedburgh (Sunnyside)	G. Hilson, Esq.	5	6 0	351 ⅄	30·22	154
D St. Boswell's (Elliston)	The Hon. G. Dalrymple	5	1 0	352	30·55	176
Kelso (Springwood Park)	Mr. W. Chaplin	10	1 0	130 L	26·25	136
,, (Broomlands)	Dr. Buchan	...	...	205	26·84	214
D Melrose (Asylum) *old g.*	Mr. Pattman	5	0 6	480 T	31·71	218
,, (,,)	,, ,,	5	1 0	480 T	30·99	218
D ,, (Abbey Gate)	Mr. A. B. Dodds	5	0 6	280 T	34·35	193
D Wooplaw [Galashiels]	J. Murray, Esq.	5	1 0	880 ⅄	33·83	172

DIVISION XIII.—SOUTH EASTERN COUNTIES.

SELKIRK.						
D Selkirk (The Hangingshaw)	Miss Johnstone	5	0 6	670 T	39·16	179
Galashiels (Abbotsford Rd.)	Dr. Somerville	5	0 6	416 T	36·86	205
PEEBLES.						
Innerleithen (Leithen Lodge)	Mr. D. Clark	11	0 0	700 T	49·18	...
D Peebles (Kailzie)	Captain W. C. Black	5	3 6	559 ⅄	45·41	162
Eddlestone (Portmore Res.)	W. Anderson, Esq.	11	0 6	1000	40·10	178
BERWICK.						
D Coldstream (The Hirsel) *new g.*	Mr. Cairns	5	1 0	75 ⅄	26·50	181
,, (Milne Graden)	Dr. Buchan	...	...	103	31·37	120
D Marchmont House	Mr. P. Loney	5	1 0	500 T	36·36	189
D Dunse Castle	Mr. R. Aikman	5	1 0	500	32·12	130
St. Abb's Head	Bd. of Northern Lights	...	0 4	211	24·80	136
HADDINGTON.						
Garvald (Donolly Reservoir)	Mr. J. Henderson	11	0 2	600 T	38·50	...
D Whittinghame Gardens	Mr. J. Garrett	5	1 0	348 B	29·12	124
D Haddington (Asylum)	J. Mowat, Esq.	5	0 9	238 T	28·32	226
Prestonkirk (Smeaton)	Dr. Buchan	...	...	100	23·29	...
North Berwick Reservoir	Mr. J. Henderson	11	0 2	150 T	25·76	...
,, ,, (Fidra)	Bd. of Northern Lights	...	...	...	22·36	...
EDINBURGH.						
Moorfoot Hills (Bowbate)	W. Anderson, Esq.	...	...	...	53·45	...
,, ,, (Gladhouse Res.)	,, ,,	11	0 6	900	39·43	181
,, ,, (Rosebery)	,, ,,	11	0 6	750	38·85	141
Pentland Hills (Crosswood)	,, ,,	11	0 6	950	45·15	...
D Gorebridge (Middleton)	Miss Anstruther	5	0 6	750	40·29	227
Penicuick (Edgelaw Res.)	W. Anderson, Esq.	11	0 6	654	39·22	141
Pentland Hills (Harper rig)	,, ,,	11	0 6	900	45·93	...
,, ,, (Harehill)	,, ,,	11	0 6	1470	63·60	...
,, ,, (Loganlea)	,, ,,	11	0 6	850	61·45	...
West Calder (Addiewell)	J. Fyfe, Esq.	5	0 6	600	41·04	...
Pentland Hills (Swanston)	W. Anderson, Esq.	11	0 6	550	50·40	...
,, ,, (Glencorse Res.)	,, ,,	11	0 6	787	43·91	149

DIVISION XIII.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above SeaLevel	Depth of Rain. 1891	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	EDINBURGH—(*con.*)						
	Pentland Hills (Harlaw)	W. Anderson, Esq.	11	0 6	800	40·37	...
	,, ,, (Clubbiedean Res)	,, ,,	11	0 6	750	38·99	...
	Dalkeith	Dr. Buchan	...	...	190	24·69	140
	Colinton (Fernielaw)	Messrs. Leslie & Reid.	11	0 6	500	33·85	..
D	Dalmahoy	Countess D.of Morton	5	0 10	358	33·47	172
	Liberton (Alnwick Hill Res.)	W. Anderson, Esq.	11	0 6	400	34·07	103
	Portobello (Joppa)	R. Muirhead, Esq.	5	1 0	20 T	25·19	...
D	Edinburgh (Blacket Place)	R. C. Mossman, Esq.	5	0 8	252 T	29·21	186
	,, (Charlotte Square)	Messrs. Leslie & Reid.	11	0 6	230	24·23	...
	,, (,, ,,)	,, ,, ,,	12	63 0	300	18·84	...
	,, (Royal Observatory)	Dr. Copeland	5	23 0	370 ⅄	17·18	135
	,, (,, ,,)	,, ,,	5	1 0	347 ⅄	25·06	151
	,, (Streatham Ho.)	Dr. Buchan	...	...	...	29·10	...
	,, (Napier Road)	,, ,,	...	...	...	28·80	...
	Leith	The Meteor. Council	8	1 8	22	22·59	147
	,, (Navigation School)	Dr. Buchan	5	0 5	70	26·77	180
	LINLITHGOW.						
D	Whitburn (Polkemmet)	Lady Baillie	5	1 0	600 T	45·31	192
	Uphall	J. Fyfe, Esq.	5	0 9	380	27·64	...
	Linlithgow (Rockville)	Mrs. Adie	3	0 9	260	27·10	...
	Bo'ness (Grange)	H. M. Cadell, Esq.	3	0 9	20	26·80	...

DIVISION XIV.—SOUTH WESTERN COUNTIES.

	LANARK.						
D	Douglas (Newmains)	Mr. J. Kerr	3	0 4	783	?60·70	206
D	Biggar (Cambus Wallace)	Captain Paul	6	0 6	748 ⅄	34·40	176
	Carmichael House	Sir W. C. Anstruther, Bt.	6	1 0	786 T	33·54	...
D	Dalzell House	Lord Hamilton	6	5 6	89 T	31·14	120
	Hamilton Water Works	Mr. R. Watson	7	1 0	436 T	34·40	...
D	,, (Ardenclutha)	Rev. T. M. B. Paterson	5	1 6	260 ⅄	34·89	159
	Bothwell Castle	Mr. W. F. Archibald	10	18 0	146 T	25·35	156
D	Airdrie (Hillend Reservoir)	Mr. W. A. Ritchie	6	4 6	620 ⅄	36·54	182
	Glasgow Observatory	Prof. Grant, F.R.S.	11	1 9	182	36·44	191
	,, (Belvedere Hospital)	Dr. Buchan	...	...	54	33·32	175
	AYR.						
D	Ballantrae (Glendrishaig)	P. Murdoch, Esq.	5	1 0	320	42·65	158
	Barrhill (Dochroyle) M	Mr. J. Scott	6	0 6	548 T	52·46	...
D	Colmonell	R. Aitken, Esq.	6	0 6	100 T	46·23	192
D	Girvan (Pinmore)	Capt. Hamilton	5	1 0	187 ⅄	48·84	209
	Ailsa Craig	Bd. of Northern Lights	...	...	...	19·74	...
	Loch Finlas	J. Wilson, Esq., C.E.	5	1 0	849 ⅄	56·83	...
	Girvan (Turnberry)	Bd. of Northern Lights	...	...	...	33·18	119

DIVISION XIV.—SOUTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	AYR—(*con.*)						
D	Dalmellington (Benquhat)	A. Gillespie, Esq.	...	1 6	1128	54·76	243
	Maybole (Culzean Gardens)	Mr. D. Murray	9	3 6	250	34·97	153
	Ayr (Auchinlee)	J. Drennan, Esq.	6	3 0	36 T	31·52	...
D	Old Cumnock	Mr. H. Neal	5	1 0	370 T	42·79	209
	Kilmarnock (North Craig)	R. Blackwood, Esq.	12	1 0	319 ⅄	42·10	...
	Ardrossan	The Meteor. Council	8	1 0	10	31·78	178
D	,, (Kirkhall)	H. F. Weir, Esq.	8	2 9	106 ⅄	33·30	186
	Paisley W. W. (Camphill)	R. Sharp, Esq.	12	1 6	611	54·30	...
	Wemyss Bay (Ashcraig) M	Miss Stewart	10	2 10	30	41·72	...
	Shaws W. Works (Kelly Dam)	J. Wilson, Esq., C.E.	6	1 0	640 ?	63·20	...
	RENFREW.						
	Lochwinnoch (Garthlands)	J. Wilson, Esq., C.E.	...	...	...	63·92	...
	,, (Castle Semple)	Mr. W. Thorburn	7	30 0	240	37·29	210
Gorbals's Dist.	Ryat Lynn	J. M. Gale, Esq., C.E.	8	0 5	310	52·40	...
Gorbals's Dist.	Waulk Glen	,, ,, ,,	12	0 5	280	51·05	...
Gorbals's Dist.	Middleton	,, ,, ,,	12	0 5	550	57·10	...
Gorbals's Dist.	Nether Cairn	,, ,, ,,	12	0 5	700	55·40	...
Paisley W. Works	Stanely	R. Sharp, Esq.	12	1 0	190	38·78	...
Paisley W. Works	Back Thornleymuir	,, ,,	12	1 0	646	43·03	...
Paisley W. Works	Muirhead	,, ,,	12	1 0	482 ⅄	49·22	...
Paisley W. Works	Springside	,, ,,	12	1 0	532 ⅄	53·00	...
D	Glasgow (Queen's Park)	Mr. D. McLellan	8	0 9	144 ⅄	36·09	181
	Paisley (Crookston)	Major Hotchkis	3	0 5	...	34·80	...
	,, (The Coats Observatory)	Dr. Buchan	10	1 0	100	38·09	189
Shaws Water Works.	Creuch Hill	J. Wilson, Esq., C.E.	6	1 0	1100	52·90	...
Shaws Water Works.	Green Water	,, ,, ,,	6	1 0	788 ⅄	66·70	...
Shaws Water Works.	Gryfe Reservoir	,, ,, ,,	6	1 0	640 ⅄	63·10	...
Shaws Water Works.	Mansfield	,, ,, ,,	5	1 0	573 ⅄	63·58	245
Shaws Water Works.	Compensation Reservoir	,, ,, ,,	5	1 0	600	58·90	...
Shaws Water Works.	Loch Thom	,, ,, ,,	5	1 0	643 ⅄	60·17	248
Shaws Water Works.	Shielhill	,, ,, ,,	6	1 0	962 ⅄	57·30	...
Shaws Water Works.	Spango Burn	,, ,, ,,	6	0 9	757 ⅄	54·00	...
Shaws Water Works.	Hole Glen	,, ,, ,,	5	1 0	603	60·47	243
Shaws Water Works.	New Yetts Dam	,, ,, ,,	5	1 0	800	59·68	243
D	Prospect Hill	,, ,, ,,	5	1 0	200	60·85	213
	Port Glasgow (Dougliehill Res.)	,, ,, ,,	5	1 0	549 ⅄	51·54	...
	,, ,, (Auchendoors Res)	,, ,, ,,	5	1 0	321 ⅄	45·56	...

DIVISION XV.—WEST MIDLAND COUNTIES.

	DUMBARTON.						
	New Kilpatrick (Chesters)	J. Kennedy, Esq.	5	1 0	240 T	42·15	...
D	Dumbarton (Leven Shipyard)	Messrs. Denny, Bros.	5	1 0	21 T	46·35	195
	Helensburgh (Lyleston)	Forrest Frew, Esq.	6	0 6	120	44·10	...
	,, (Glenam)	L. P. Muirhead, Esq.	5	1 0	100	52·27	199
D	,, (Water Works)	J. R. Wilson, Esq.	6	0 6	300	45·86	211
	Arrochar	Rev. J. Dewar	5	0 9	12	77·83	...

DIVISION XV.—WEST MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	STIRLING.						
	Strathblane (Mugdock Reservoir)	J. M. Gale, Esq., C.E..	8	0 6	320	46·88	...
D	,, (Craigend Castle) ...	Sir J. Buchanan, Bart.	5	0 9	543 T	56·85	202
	Falkirk (Kerse)	A. Brown, Esq.	8	1 0	...	30·30	...
D	Killearn (Old Ballikinrain)	Mr. J. Smith	5	0 6	265	57·22	167
	Stirling (Polmaise Gardens).....	Mr. W. W. Ritchie ...	6	1 0	12	34·08	...
D	Buchlyvie (The Manse).	Rev. J. A. Macdonald..	5	1 3	118 T	48·35	215
	Ben Lomond	J. M. Gale, Esq, C.E...	...	...	1800	86·40	...
	BUTE.						
	Arran (Pladda)	Bd. of Northern Lights	...	3 3	55 ?	30·28	138
	Holy Island (Lamlash)	,, ,, ,,	...	...	...	50·00	110
	Rothesay (Barone Cottage)	J. Kay, Esq.	5	1 0	116 ⅄	43·17	215
D	,, (Crichton Road).....	H. Lauder, Esq.....	5	4 0	97	47·23	240
	ARGYLL—(MAINLAND.)						
D	Holy Loch (Rosmor)	W. R. W. Smith, Esq.	5	1 1	30	77·25	211
	Ardrishaig	Dr. Buchan.....	8	0 6	14	65·08	...
D	Loch Eck (Benmore).....	Sir A. Jardine, Bt. ...	5	1 0	35	85·18	237
D	Lochgilphead (Kilmory) *Snowdon*	Sir J. Campbell Orde, Bt.	5	...	...	58·60	217
D	,, (Poltalloch)	Mr. J. Russell	3	4 6	126	47·34	233
	,, (,,)	,, ,, ...	5	0 4	121	46·66	234
	Loch Awe (Ederline)...	Mr. D. McLeod	5	1 6	110	58·35	147
D	Inverary Castle	Mr. G. Taylor	5	1 0	40	73·08	230
D	,, (Newtown).....	Mrs. Little	5	1 0	17	69·10	237
D	Oban (Craigvarren)	G. W. Brenan, Esq., C.E.	5	1 0	143	55·96	225
D	,, (The Corran)	Dr. Bailey	5	1 0	20	57·02	236
	Appin (Aird's) ..... M	R. Macfie, Esq.	5	0 11	41 ⅄	56·45	...
D	Morvern (Drimnin)	Mrs. Gordon	5	...	...	59·15	229
	Ballachulish	D. Campbell, Esq., M.D.	8	0 1	22	87·09	215
D	Strontian (Laudale)	A. Fletcher, Esq.	8	1 0	15 ⅄	73·83	242
D	Loch Sunart (Glenborrodale) ...	J. J. Dalgleish, Esq....	5	0 2	60 L	63·32	220
D	Ardgour House	Mr. D. Maclean	3	0 10	72	65·20	...
	Ardnamurchan	Bd. of Northern Lights	...	3 6	28 ?	28·72	143
D	,, (Achateny).....	Mr. R. Coltart	5	0 2	61 ⅄	66·12	232
	Loch Eil (Corran)	Bd. of Northern Lights	...	0 4	14 ?	87·50	213
D	,, ,, (Conaglen)	Countess Dow. of Morton	5	0 10	36	103·06	209
	ARGYLL—(INSULAR.)						
	Sanda	Bd. of Northern Lights	...	...	...	24·69	112
	Cantire, Mull of.....	,, ,, ...	...	...	279 ?	40·40	116
	,, (Campbeltown, Devaar)	,, ,, ...	...	3 4	75 ?	43·27	182
	,, (Skipness Castle)	Mr. P. McLean	5	1 6	20	47·17	..
	,, (Stonefield, Tarbert) ...	Colin G. Campbell, Esq	3	0 9	90	67·78	172
D	Islay (Ardbeg)	C. Hay, Esq.	5	7 0	46	36·78	209
	,, (Rhinns)	Bd. of Northern Lights	...	3 0	74 ?	32·20	158
	,, (Lochindaul).....	,, ,,	...	...	...	42·68	202
	,, (McArthurshead).....	,, ,,	...	...	...	41·31	126
D	,, (Eallabus).....	J. S. R. Ballingal, Esq..	5	1 0	68 T	44·34	214

DIVISION XV.—WEST MIDLAND COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
ARGYLL—(INSULAR)—(*con.*)						
D*Islay (Gruinart School Ho.) *old g*	Mr. D. Mac Gilp	5	1 0	214 ⊼	48·57	226
,, (Rhuvaal).....	Bd. of Northern Lights	...	...	...	39·00	184
Jura (Bay of Small Isles).....	H. Evans, Esq.	...	...	80?	54·80	...
,, (Lowlandmansbay)	Bd. of Northern Lights	...	...	...	47·27	189
,, (Fladda)	,, ,,	...	...	...	54·60	161
,, (Ardfin)	Miss E. Campbell.....	5	0 6	130	52·97	...
Lismore (Mousedale)	Bd. of Northern Lights	...	3 4	37 ?	40·84	156
D Mull (Quinish)	J. N. Forsyth, Esq. ...	5	0 9	35	58·52	216
,, (Sound of).....	Bd. of Northern Lights	...	...	...	47·60	155

DIVISION XVI.—EAST MIDLAND COUNTIES.

CLACKMANNAN.						
Alloa (Mar Street).....	J. Melville, Esq.....	5	0 6	70	31·49	...
D Dollar	Mr. A. Blackwood	9	1 0	178	36·83	168
KINROSS.						
Blairingone [Dollar]	Rev. J. F. Cameron ...	5	1 6	300 T	39·57	...
Loch Leven Sluice	Mr. W. Clark.....	7	0 7	360 L	36·80	...
D Kinross (Turfhills).....	G. Henderson, Esq. ...	5	0 6	400 ⊼	41·66	164
FIFE.						
D Culross (West Grange)	J. J. Dalgleish, Esq....	5	0 2	116 ⊼	30·26	129
D Dunfermline (Keavil)	L. Dalgleish, Esq.....	5	0 2	150	26·16	169
D ,, (Outh)	,, ,, ...	5	0 2	890	32·35	160
Carnock (Luscar House)	Col. Mitchell	5	0 10	430 T	33·16	...
Pittenweem (The Priory).....	Rev. F. K. Lloyd	5	0 10	50	25·68	...
Kilconquhar (Balcarres)	Mr. E. Tate.....	5	1 0	300 T	33·72	191
D Strathmiglo (Leden Urquhart) ..	J. Thom, Esq.	5	1 0	615 T	35·66	136
Cupar (Fife & Kinross Asylum).	Dr. Turnbull	5	0 4	210	28·27	138
Kilmany (Mountquhanie House).	D. Gillespie, Esq.	3	1 3	240	30·10	...
Tayport	A. W. Donaldson, Esq.	5	1 0	27	28·35	139
PERTH.						
Tulliallan (F. C. Manse)	Rev. J. W. Laurie.....	5	1 11	50	25·99	...
Aberfoyle	J. M. Gale, Esq., C.E..	8	0 6	60	57·85	...
Dunblane (Kippenross).....	Col. Stirling	3	0 4	150 ⊼	40·70	...
Loch Dhu	J. M. Gale, Esq., C.E..	8	0 6	325	82·50	...
Ledard	,, ,, ,,	...	...	1500	57·00	...
Loch Drunkie.....	,, ,, ,,	8	0 6	420	60·90	...
,, Vennachar.....	,, ,, ,,	8	0 6	275	56·15	...
D Lanrick Castle	Mr. J. Begg	3	1 0	...	42·15	144
Bridge of Turk	J. M. Gale, Esq., C.E..	8	0 6	275	65·50	...
Loch Katrine (Tunnel Hill Top)	,, ,, ,,	8	0 6	830	83·60	...

DIVISION XVI.—EAST MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	PERTH—(*con.*)						
	Between Glen Finlas & Ben Ledi.	J. M. Gale, Esq., C E..	8	0 6	1800	47·45	...
	Callander (The Gart)	C. C. Ainslie, Esq.	5	0 7	250	51·21	...
	,, (Leny)	J. B. Hamilton, Esq...	3	0 4	345 T	53·00	...
	Glen Gyle	J. M. Gale, Esq., C.E..	...	...	380	94·40	...
D	Balquhidder (Stronvar)	J. Dickson, Esq.	6	1 0	422 T	76·10	226
	Comrie (Dalginross)	P. McRostie, Esq.	5	0 5	200 T	51·87	...
D	Crieff (Ochtertyre)	Mr. G. Croucher	5	3 0	326 T	41·30	193
	Perth (Rosebank)	Dr. Buchan ...	...	...	140	30·69	165
	,, (Huntingtower Field) ...	Mr. A. Bayne	6	1 0	40	27·90	...
D	Coupar Angus Station	Mr. J. Robertson	5	1 3	183 T	29·94	168
D	Dunkeld (Inver Braan)	Rev. J. M. B. Murdoch	...	1 0	500 ?	39·81	136
	Pitlochry (Donavourd)	W. Maxwell, Esq.	...	...	450	34·65	...
D	Dalnaspidal (H.R.S.)	The Station Agent	5	3 0	1414 T	62·66	234
	FORFAR.						
	Buddonness	A. W. Donaldson, Esq.	5	1 0	17	24·05	116
	Dundee (Harbour)	,, ,, ,, ...	5	0 10	14	29·61	186
D	Broughty Ferry (Douglas Ho.)...	Mr. K. Graham	5	5 6	60 ⅄	28·45	145
D	Dundee (Eastern Necropolis) ...	W. B. McKelvie, Esq..	3	0 4	199 T	28·80	125
D	,, (,, ,,) *new*	,, ,, ,, ...	3	0 4	199 T	28·94	179
	,, (Dens Works)	Messrs. Baxter Bros. ...	5	...	119 T	25·79	...
D	,, (Camperdown Jute Works)	The Storekeeper ...	5	3 8	290	23·55	111
	Monifieth (Fountain Brae)	Messrs. Laird & Sinclair	6	1 0	55	27·48	135
D	,, (Sea View)	W. Low, Esq.	8	1 0	83 ⅄	25·98	162
D†	Craigton	G. Baxter, Esq.	8	1 0	481	35·12	136
†	,, M	,, ,, ,,	11	0 3	481	34·95	...
†	Crombie Reservoir M	,, ,, ,,	11	0 3	522 T	34·15	...
†	Hill Head M	,, ,, ,,	11	0 3	570 T	33·78	...
D	Arbroath (Waterworks)	W. Stewart, Esq., C.E.	5	0 11	58	23·50	141
	,, (,, tower) ...	,, ,, ,, ...	5	60 0	157	15·20	...
D	Kirriemuir (Lednathie)	Mr. W. Morrison	5	1 0	720	43·10	195
D	,, (Lintrathen)	G. Baxter, Esq.	8	1 0	700	32·65	149
	,, (,,) M	,, ,, ,,	8	1 0	700	32·71	...
	,, (,, Creich Hill) M	,, ,, ,,	8	1 0	1500	33·65	...
	Montroseness	Bd. of Northern Lights	...	...	...	21·09	...
	Montrose (Panmure Gardens) ...	Mr. A. Bruce	5	1 0	...	28·64	176
D	,, (Sunnyside Asylum)...	Dr. J. C. Howden	5	0 10	200	27·71	117

DIVISION XVII.—NORTH EASTERN COUNTIES.

	KINCARDINE.						
	The Burn [Brechin]	Col. McInroy	5	0 6	250	33·70	...
	Fettercairn (Arnhall)	J. H. Hay, Esq.	5	0 8	194	31·35	...
	,,	A.C.Cameron Esq.LL.D	5	0 4	237 ⅄	30·59	169
	Girdleness	Bd. of Northern Lights	...	4 7	86	18·27	...

DIVISION XVII.—NORTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
ABERDEEN.						
D†Braemar	J. Aitken, Esq.	8	0 9	1114 T	34·37	189
Forest of Glen Tana	Sir W. C. Brooks, Bt..	5	1 0	576 T	26·33	106
D Cromar (Logie Coldstone Manse).	late Rev. Dr. Davidson	5	1 0	694 ⅄	28·34	166
,, (Tillypronie)	Mr. R. Littlejohn	5	1 0	1120 ⅄	32·38	208
D Aberdeen (Cranford)	D. McHardy, Esq.	5	1 0	120 T	29·87	205
† ,, (Rose Street)	Dr. A. Cruickshank	5	0 5	95 T	26·08	...
,,	The Meteor Council	...	...	...	28·45	190
,, (Gordon's Hospital)	Dr. Buchan	8	1 6	66 T	28·42	189
,, (King's College)	The Meteor. Council	11	2 0	48	28·61	182
D Midmar (Blackstock)	Mr. J. Barron	5	0 9	570 T	20·85	121
D ,, (Dun Echt Observatory)	Dr. Copeland	8	0 11	461 ⅄	25·33	174
Inverurie (Manor Farm)	Mr. J. Walker	8	15 0	...	24·54	...
Ellon (Kermuck)	Mr. T. Mair	11	0 6	300 T	28·39	...
Haddo House	Mr. J. Forrest	5	0 8	197 T	29·74	...
Peterhead (Buchanness)	Bd. of Northern Lights	...	...	...	25·67	112
New Deer (Artamford Cottage)..	J. Joiner, Esq	5	1 0	551 ⅄	28·05	181
D Old Deer	J. Walker, Esq	5	2 0	135 ⅄	28·35	203
Kinnairdhead	Bd. of Northern Lights	...	...	...	22·33	...
BANFF.						
D Keith (H.R.S.)	The Station Agent	5	1 0	364 T	30·32	162
Banff (Earl Hill)	A. Ramsay, Esq.	5	1 0	115 T	27·26	182
D Boyndie (Whitehills)	Rev. W. Anderson	5	1 0	68 ⅄	28·85	198
Cullen House	Mr. J. F. Smith	5	1 0	100 T	36·37	...
ELGIN OR MORAY.						
Grantown	Mr. W. Duncan	5	1 1	712 ⅄	30·08	200
Craigellachie(WesterElchiesSch)	Mr. J. Milne	5	1 0	560 T	30·12	127
D Forres (H.R.S.)	The Station Agent	5	1 0	25	20·58	140
,, (Grange Hall)	J. Grant Peterkin, Esq.	5	1 0	52 T	22·40	...
D Gordon Castle	Mr. C. Webster	8	1 0	107 ⅄	31·01	188
D Elgin (Highfield)	A. Cameron, Esq.	5	1 0	80 T	27·58	190
NAIRN.						
Dunearn Lodge [Dava]	Dr. Buchan	...	...	..	28·49	...
D Nairn (Achareidh)	Col. Clarke	8	1 0	50	21·99	198
,, (School Ho.)	The Meteor. Council	8	1 9	84	22·49	196

DIVISION XVIII.—NORTH WESTERN COUNTIES.

WEST ROSS.‡						
Strome Ferry (H.R.S.)	The Station Agent	5	1 0	40	*60·81*	...
Applecross Gardens	Mr. D. McCowan	5	1 0	70 ⅄	57·46	...
Strathconan [Beauly]	Mr. D. McIver	5	1 0	450	42·06	123
D Glencarron Lodge	D. D. Munro, Esq.	5	1 0	504	90·23	254
Loch Torridon (Bendamph)	Rt. Hon. Earl Lovelace	5	0 11	25	88·58	...

‡ Including Cromarty.

DIVISION XVIII.—NORTH WESTERN COUNTIES—(*continued.*)

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height above Ground.	Height above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	WEST ROSS—(*con.*)						
	Lochbroom (Loch Drome)	Sir J. Fowler, Bt.	8	0 7	850	61·54	...
	Braemore House	,, ,, ,,	8	0 7	750	60·11	...
	,, Lodge=Foich	,, ,, ,,	8	0 7	100	56·58	...
	Isle of Lewis (Stornoway)	Bd. of Northern Lights	...	3 4	31 ?	32·25	184
	,, (,,)	The Meteor. Council	8	1 0	24	46·53	262
	,, (Butt of Lewis)	Bd. of Northern Lights	...	3 6	...	28·45	113
	EAST ROSS.‡						
	Contin (Kinnahaird)	W. Ross, Esq.	5	1 2	74 T	31·09	168
	Strathpeffer Spa	Dr. Fortesque Fox	5	0 10	200	31·72	210
	Cromarty	Bd. of Northern Lights	...	...	...	20·91	148
D	Alness (Ardross Castle)	Mr. R. Massie	5	1 0	450 ⅄	32·88	160
	Fearn (Lower Pitkerrie)	R. Gordon, Esq., C.E.	5	1 0	95	21·36	...
	,, (Geanies Mains)	Miss Hope Douglas	5	1 5	...	19·69	...
	Tarbetness	Bd. of Northern Lights	...	3 4	61 ?	25·34	...
	WEST INVERNESS.						
D	Ben Nevis Observatory	Dr. Buchan	5	...	4407	177·98	260
D	Fort William (Public School)	C. Livingstone, Esq.	5	1 0	36 ⅄	87·84	252
	,, ,, Observatory	The Meteor. Council	8	...	...	78·74	231
	Moidart (Roshven)	Prof. Blackburn	5	1 0	68 ⅄	64·38	252
D	Loch Shiel (Glenaladale)	Major Macdonald	5	1 2	50 ?	106·06	256
D	Borrodale (Arisaig)	Mr. A. Grant	5	1 0	20 ?	58·46	238
D	Glenquoich	Mr. D. Grant	8	2 4	660	109·34	246
	Isle of Skye (Oronsay)	Bd. of Northern Lights	...	0 6	15 ?	50·31	198
	,, ,, (Kyle Akin)	,, ,, ,,	...	0 2	3 ?	47·47	126
	Rona	,, ,, ,,	...	...	...	52·94	139
	Barra (Barrahead)	,, ,, ,,	...	3 0	640 ?	26·80	182
	S. Uist (Ushenish)	,, ,, ,,	...	0 4	157 ?	74·50	172
	N. Uist (Monach)	,, ,, ,,	...	...	...	47·23	143
D	,, (Loch Maddy)	J. M. Fraser, Esq.	5	1 0	...	61·12	176
	EAST INVERNESS.						
	Invergarry	Mrs. Ellice	5	1 0	...	60·16	...
D	Aviemore (H.R.S.)	The Station Agent	5	1 0	710	27·56	225
D	Loch Ness (Drumnadrochit)	Mr. A. Grant	5	1 0	104	34·11	206
†	Inverness (Culloden House)	D. Forbes, Esq.	6	4 0	104 T	21·22	...
D	Cawdor [Nairn]	J. Joss, Esq.	5	1 0	250 T	28·32	195

DIVISION XIX.—NORTHERN COUNTIES.

	SUTHERLAND.						
	Invershin	Mr. G. Young	5	4 0	20 T	34·82	...
D	Golspie (H.R.S.)	The Station Agent	5	0 9	27	29·56	124
D	,, (Dunrobin Castle)	Mr. D. Melville	5	1 0	14 ⅄	29·95	148
	,, (,, ,,)M	,, ,,	3	0 3	13 ⅄	29·44	...

‡ Including Cromarty.

DIVISION XIX.—NORTHERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell
			ft. in.	feet.	inches.	
SUTHERLAND—(*con.*)						
Lairg	The Meteor. Council	5	0 10	332	38·41	245
Stourhead	Bd. of Northern Lights	...	..	...	49·82	174
Scourie	J. Simpson, Esq.	5	0 4	28	46·41	...
CAITHNESS.						
Wick	The Meteor. Council	8	1 9	77	31·15	205
† ,, (H.R.S.)	The Station Agent	5	1 0	...	30·26	...
† ,, (Nosshead)	Bd. of Northern Lights	8	4 8	127 ?	26·37	143
D†Watten (H.R.S.)	The Station Agent	5	2 6	75 ↑	26·68	196
Thurso (Holburnhead)	Bd. of Northern Lights	3	0 8	60 ?	27·50	114
Dunnethead	,, ,, ,,	...	3 0	...	34·94	144
Pentland Skerries	,, ,, ,,	...	3 3	72 ?	23·03	187
ORKNEY.						
D South Ronaldshay (Roeberry)	J. Gray, Esq.	5	1 2	101 ↑	31·47	221
Hoy (Cantickhead)	Bd. of Northern Lights	...	0 6	...	34·90	110
,, (GraemsaySound, East=High)	,, ,, ,,	...	3 4	27 ?	30·76	144
,, (,, ,, West=Low)	,, ,, ,,	...	3 4	...	34·39	190
Pomona (Kirkwall)	Mr. J. W. Cursiter	3	0 6	30	36·01	168
Shapinsay (Balfour Castle)	Mrs. Balfour	5	0 6	50	32·80	...
Auskerry	Bd. of Northern Lights	...	...	...	24·82	...
Sanda (Start Point)	,, ,, ,,	11	0 6	29 ?	26·61	...
North Ronaldshay	,, ,, ,,	...	3 4	21 ?	27·36	...
SHETLAND.						
Sumburghead	Bd. of Northern Lights	...	...	...	30·45	134
,, (Dunroseness)	The Meteor. Council	8	1 0	84	37·92	248
Bressay Lighthouse	Bd. of Northern Lights	5	0 4	60	42·33	168

IRELAND.

DIVISION XX.—MUNSTER.

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height above Ground.	Rain Gauge. Height above Sea Level	Depth of Rain. 1891	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	CORK.						
D	Dunmanway (Coolkelure)	Col. Shuldham	5	1 6	500 T	64·27	221
	Roche's Point.....	The Meteor. Council ...	8	1 9	32	46·38	171
D	Cork (Clarence Place)	W. Miller, Esq.....	5	1 0	106 ⅄	39·24	188
D	Blarney (Garrycloyne)	R. C. Sikes, Esq.	5	1 0	375 T	37·22	182
D	Mallow (Old Dromore)	B. Williamson, Esq. ...	5	1 11	291 ⅄	38·37	192
	KERRY.						
D	Darrynane Abbey	D. O'Connell, Esq.....	5	1 0	13 ⅄	50·23	235
	Kenmare (Derreen)	Mr. W. Holbrow	5	1 0	74 T	73·00	203
D	Dromore Castle	R. J. Mahony, Esq. ...	5	0 6	50 L	49·39	169
	Valencia (Telegraph Station) ...	The Meteor. Council ...	8	1 0	12	58·37	246
	,, (Observatory).....	,, ,, ,,	...	...	...	59·36	239
	Mangerton	VenArchdeacon Wynne	8	0 8	1760 B	86·90	...
D	Killarney (Woodlawn)	,, ,, ,, ...	5	1 1	96 ⅄	53·44	237
	Dingle.....	Rev. J. B. Anderson ...	5	1 0	20	59·50	...
	Ballyheigue	VenArchdeacon Wynne	5	1 0	30	37·12	...
	WATERFORD.						
D	Knockaderry	M.J.Fleming,Esq. C.E.	5	0 9	230 T	44·98	212
D	Waterford (Brook Lodge).....	C. P. Bolton, Esq., C.E.	5	1 0	100 T	42·76	181
D	,, (Ticor)	M.J.Fleming, Esq. C.E.	5	0 7	171 T	42·14	173
D	Portlaw (Mayfield).....	J. Anderson, Esq.	5	4 0	70	44·78	184
D	Glenam [Clonmel]	Miss Grubb.....	8	1 4	80 T	41·15	204
	TIPPERARY.						
D	Tipperary (Henry Street).....	J. Dowling, Esq., M.D.	5	1 0	400 ?	37·21	180
D	Fethard (Mobarnane)	Dr. Donaldson	5	1 1	370 L	33·55	167
D	Derry Castle [Killaloe]...	Mr. T. Manly.....	5	1 6	580 T	46·34	239
D	Nenagh (Clashnevin).....	J. Mounsey, Esq.	5	1 2	300 ⅄	33·02	188
	,, (Castle Lough)	A. Parker, Esq.....	5	1 3	120 T	39·41	210
D	Ballingarry (Hazelfort)	Mrs. Fraser.....	5	1 0	...	33·48	207
	LIMERICK.						
	Newcastle West (Churchtown)...	J. Horan, Esq.	5	1 0	234 T	37·04	210
	Jane Ville [Tipperary].....	R. Harding, Esq.	5	1 0	366	43·77	...
	Foynes	The Meteor. Council ...	...	...	...	36·76	216
	Limerick (Roxborough).....	A. W. Shaw, Esq.....	8	1 6	112 T	34·70	201
D	,, (Kilcornan)	Mr. J. Smyth.....	5	1 0	...	31·46	148

DIVISION XX.—MUNSTER—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1891 inches.	Days on which ·01 or more fell.
	CLARE.							
D	O'Briensbridge (Ross)	J. Digan, Esq.	10	2	0	93	36·86	192
	Sixmilebridge (Kilkishen)	Rev. Canon Lloyd	5	4	4	113 ⅄	37·25	161
D	Broadford (Hurdlestown)	Capt. Bentley	5	1	0	164	33·76	224
D	Ennis	J. Hill, Esq., C.E.	10	18	0	21 L	37·20	207
	,, (Roslevan)	Mrs. Scott	5	1	11	40	36·53	189
D	Miltown Malbay	M. Molohan, Esq.	5	1	0	400 T	42·27	227
	DIVISION XXI.—LEINSTER.							
	WEXFORD.							
D	New Ross (Longraigue)	J. W. Deane, Esq.	5	1	0	210 T	43·44	192
D	Wexford (Bann-aboo)	Col. Magrath	8	5	2	10	44·00	174
D	,, (Alma)	E. K. Ryan, Esq.	5	1	6	50 ⅄	45·05	176
D	,, (Felt House)	W. Charlton, Esq.	5	3	3	0	31·55	141
D	Enniscorthy (Ballyhyland)	J. Moffat, Esq.	5	1	0	365 T	47·69	210
	Oulart (Wells)	C. M. Doyne. Esq.	5	1	0	207	45·21	208
D	Gorey (Courtown House)	Rt Hon Earl of Courtown	5	3	0	80 T	38·84	170
	KILKENNY.							
	Rosbercon Castle [New Ross]	A. E. Graves, Esq.	10	2	6	60	36·96	...
D	Inistioge (Woodstock)	Lady Louisa Tighe	5	1	0	400 T	40·23	180
D	Graigue (Brandondale)	R. R. Burtchaell, Esq.	5	2	0	90 T	42·81	137
	Kilkenny (Lavistown)	D. A. Milward, Esq.	5	1	6	180 T	31·82	178
D	,, (Inch House)	J. O'Connell, Esq., C.E.	5	1	0	192	34·39	211
	,, Castle	The Meteor. Council	8	...		...	34·63	197
	WICKLOW.							
	Greystones (Knockdolian)	R Cathcart Dobbs Esq CE	5	0	6	68 T	34·95	176
D	Enniskerry (Parknasilloge)	Dr. Barrington	10	4	0	450	47·92	202
D†	Bray (Fassaroe)	R. M. Barrington, Esq.	10	5	0	250	45·62	212
	CARLOW.							
D	Borris	Hon. E. S. Stopford	5	0	6	281	35·61	188
	Bagnalstown (Fenagh House)	D. R. P. Beresford, Esq	5	1	0	340	42·28	174
D	Carlow (Browne's Hill)	W. Browne Clayton, Esq	5	1	0	291 ⅄	34·83	203
	QUEEN'S COUNTY.							
	Abbey Leix (Blandsfort)	J. L. Bland, Esq.	5	3	0	532 ⅄	34·28	213
	KING'S COUNTY.							
	Parsonstown (Birr Castle)	The Meteor. Council	8	0	11	180	31·77	193
D	,, (,, ,,)	Rt Hon Earl of Rosse FRS	8	0	7	176	31·78	193
	KILDARE.							
D	Straffan House	Mr. F. Bedford	5	2	0	240 ⅄	31·11	172
	DUBLIN.							
	Glenesmoel Lodge	F. P. Dixon, Esq., C.E.	5	0	10	800 T	46·55	234
	,, (Water Works)	,, ,,	5	0	10	519 ⅄	49·91	242

DIVISION XXI.—LEINSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above SeaLevel	Depth of Rain. 1891	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
DUBLIN—(*con*).						
D Killiney (Cloneevin)	R. O'B. Furlong, Esq..	5	1 0	250 T	25·28	163
D ,, (Eirine)	Rev. H. Palmer	5	1 0	50	27·35	177
Dalkey (Belle vue Park)	Mr. J. Kevans	6	1 3	293	23·83	131
D† Dublin (FitzWilliam Square)	J.W.Moore, Esq., M.D.	5	3 2	54 T	27·82	184
D ,, (Phœnix Park)	Col. Kirkwood, R.E.	8	1 0	155 ⅄	26·40	213
D Glasnevin (Botanic Gardens)	F. W. Moore, Esq.	8	1 0	68 ⅄	30·76	164
D Balbriggan (Laragh)	Rev. S. P. Warren	5	1 0	57 T	31·15	201
MEATH.						
D Athboy	J. Penrose, Esq	8	1 3	227	31·44	157
Old Bridge [Drogheda]	Col. Coddington	10	5 4	62 ⅄	32·56	...
Kells (Headfort)	MajorSomersetMaxwell	5	3 6	230	37·42	212
Moynalty (Westland)	W. A. Barnes, Esq.	5	1 2	260	36·75	185
WESTMEATH.						
D Athlone (Twyford)	J. Hodson, Esq	5	5 0	188 ⅄	36·40	222
D Mullingar (Belvedere)	Mr. J. Bayliss	5	1 0	367 T	34·33	164
D Street [Edgeworthstown]	MajorSomersetMaxwell	8	...	...	34·51	204
LOUTH.						
D Ardee (Lissrenny)	T. F. Filgate, Esq	8	0 10	75 T	31·94	201
D Dundalk (Farndreg)	J. Barton, Esq.	9	1 0	90 T	32·52	144
D Ravensdale (Anaverna)	Miss Stephen	8	1 9	255 T	40·93	201
,, School	Mr. Locke	8	1 6	200	40·39	153
D Greenore	T. Chambers, Esq	5	1 0	4 L	33·52	143
LONGFORD.						
Edgeworthstown(Currygrane Ho).	J. M. Wilson, Esq	5	1 0	265 T	34·47	201

DIVISION XXII.—CONNAUGHT.

GALWAY.						
Shannon Grove [Banagher]	late F. A. Waller,Esq..	5	0 9	...	28·16	...
D Galway (Queen's College)	Prof. Anderson	5	1 0	22	39·14	235
D Ballinasloe	W. H. Kempster, Esq.	5	0 6	150 ⅄	35·82	223
D ,, (Garbally)	Mr. J. Cobban	8	1 0	157 ⅄	41·58	208
D Woodlawn	Mr. A. Porter	5	3 6	300 T	41·72	197
D Ahascragh (Clonbrock)	Rt.Hon.Lord Clonbrock	10	5 6	200 T	38·79	134
D Clifden (Kylemore House)	Mr. T. McNab	5	1 0	105	87·12	240
D ,, (,, Castle)	Mr. W. Farmer	5	0 9	...	73·73	242
Tuam (Castle Hacket)	Mrs. Bernard	5	1 0	...	39·25	214
,, (Gardenfield) M	H. Kirwan, Esq.	5	1 0	155 T	42·66	...
,, (,,) ... *Snowdon*	,, ,, ,,	5	6 0	160 T	42·52	...
ROSCOMMON.						
D Donamon (Castlecoote)	Mr. A. Chute	5	0 10	197 T	39·41	209

DIVISION XXII.—CONNAUGHT—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell
			ft. in.	feet.	inches.	
MAYO.						
Ballinrobe (Cranmore)	Miss Knox	5	0 9	99	47·15	...
,, (Kilrush)	J. Simson, Esq.	5	1 0	120 T	41·72	...
D Crossmolina (Enniscoe).....	J. Pratt, Esq.....	5	0 11	74 T	50·14	240
Belmullet	The Meteor. Council ...	8	...	...	46·46	263
SLIGO.						
D Collooney (Markree Observatory)	A. Marth, Esq.	5	1 0	130 ⅄	38·62	241
,, (,, ,,)	,, ,, ,, ...	5	16 6	148 ⅄	33·51	241
D Sligo (Mount Shannon).....	F. M. Olpherts, Esq....	5	4 5	70 B	36·72	212
Mullaghmore	The Meteor. Council ...	8	1 2	40	34·74	231
LEITRIM.						
D Ballinamore (Lawderdale)	J.O. Lawder, Esq.,C.E.	5	1 0	275 T	37·55	209

DIVISION XXIII.—ULSTER.

CAVAN.						
D Lough Sheelin (Arley).....No. 2	Major S. H. Maxwell...	8	1 0	225 L	36·38	244
D ,, ,, (,,) ...No. 1	,, ,, ,, ...	5	1 0	210 L	32·40	236
D ,, ,, (,,) ...No. 3	,, ,, ,, ...	5	1 0	270 L	34·17	238
D ,, ,, (Fortland)	,, ,, ,, ...	5	1 0	325	33·72	236
D Virginia (The Lodge).....	,, ,, ,, ...	5	1 0	320	36·36	222
D Bailieboro' (The Laurels)	,, ,, ,, ...	5	1 0	520	39·44	202
Stradone House	,, ,, ,, ...	5	1 0	280	35·51	...
Cavan (Water Works) .....M	,, ,, ,, ...	8	...	...	34·36	...
D ,, (Farnham)	,, ,, ,, ...	5	1 0	210	35·46	201
D Killeshandra (Cas. Hamilton) ...	,, ,, ,, ...	5	1 0	250	34·21	203
D Belturbet (Cloverhill)	,, ,, ,, ...	5	1 0	...	33·20	208
D ,, (Red Hills)	Rev. E. B.W. Venables	5	0 9	208 ⅄	34·96	196
D Bawnboy House.....	Major Somerset Maxwell	5	1 0	240	39·33	215
D Dowra	,, ,, ,, ...	5	1 0	225	34·51	230
FERMANAGH.						
D Newtownbutler (Crom Castle) ..	Major Somerset Maxwell	5	1 0	200?	34·95	210
Enniskillen (Florence Court) ...	The Earl of Enniskillen	8	1 9	250 T	41·59	189
Brookboro' (Colebrook Park) ...	The Meteor. Council ...	...	1 0	279	40·53	209
MONAGHAN.						
D Dartrey [Cootehill]	Major Somerset Maxwell	5	3 0	270	35·97	220
D Castleblayney.....	,, ,, ,, ...	12	1 6	350	41·48	189
D Monaghan	,, ,, ,, ...	5	5 6	240	30·78	217
D Glaslough House	,, ,, ,, ...	12	3 6	150	32·45	218
ARMAGH.						
D Edward St. Station [Newry] ...	J. L. D. Meares, Esq...	5	1 0	22 ⅄	40·86	119
D Armagh Observatory.....	Dr. Dreyer	8	1 0	205 ⅄	28·75	228
D Lurgan (Belle Vue)	F. W. Bell, Esq.	5	0 5	200 T	28·54	196

DIVISION XXIII.—ULSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
			ft. in.	feet	inches.	
DOWN.						
Warrenpoint (Summer Hill).....	Mr. B. M. Kernan.....	5	1 0	30 L	29·46	...
Newcastle (Fairleigh)	Rev. J. H. Seymour ...	5	1 2	12	55·55	171
D Rathfryland (Ballynagappoge)...	J. Smyth, Esq., C.E....	5	3 0	300	36·74	143
Banbridge (Katesbridge)	A. Mulligan, Esq.	5	1 0	240	27·37	...
D Seaforde	Col. Forde	8	0 5	180 ⅄	38·67	182
D† Banbridge (Milltown)	J. Smyth, Esq., C.E....	8	0 8	200 T	31·17	199
D† Waringstown.....	Col. Waring, M.P. ...	8	0 8	191 ⅄	34·52	222
D Sydenham (Alma House).....	R. Reade, Esq.	5	1 0	60	40·33	188
Holywood Water Works	Mr. R. McLean	5	2 6	310 ⅄	28·72	178
Donaghadee	The Meteor. Council ...	8	1 6	30	30·61	218
ANTRIM.						
D Aghalee [Lurgan]	F. L. Turtle, Esq.....	5	0 9	120 ⅄	30·23	168
Stonyford (Belfast W. W.) ...	L.L.Macassey, Esq.,CE	5	0 7	470 ⅄	34·10	200
,, (,, ,,) ... M	,, ,, ,, ...	5	0 7	470 ⅄	33·62	...
D† Belfast (Queen's College).....	Mr. W. Taylor	11	7 4	68 ⅄	31·88	176
D ,, (New Barnsley)	J. Firth, Esq.....	5	1 0	200 T	37·94	207
D† ,, (Antrim Road)..... ..	G. Thompson, Esq. ...	7	7 0	144 T	35·45	204
† Antrim (The Manse).....	Rev. Dr. Orr	5	1 0	150 ⅄	33·55	175
Carrickfergus (Dorisland).....	G. E. Reilly, Esq.....	5	1 0	250	35·94	246
,, (South Woodburn)	,, ,, ...	5	1 0	640 ⅄	36·07	232
D ,, (North Woodburn)	,, ,, ...	5	1 0	735 ⅄	43·18	236
,, (Copeland) *old g.* M	,, ,, ...	5	1 0	380 ⅄	34·36	...
,, (,,)*new g*...	,, ,, ...	5	1 0	424 ⅄	33·80	239
,, (,,)*new g.*M	,, ,, ...	5	1 0	424 ⅄	31·57	...
,, (Lough Mourne)...	,, ,, ...	5	1 0	596 ⅄	37·15	239
D Ballynure (Ballyboley)	Mr. T. H. Craig.....	5	1 4	400	40·54	152
D Ballymena (Harryville)	A. Dawson, Esq.....	5	1 5	150 T	37·61	235
D Broughshane (Quolie)	J. Lanyon, Esq., C.E....	5	1 0	893	32·32	233
D Ballymoney (Balnamore)	W. H Lawlor, Esq. ...	5	1 5	50 T	33·69	223
Stranocum (Gardenvale)	A. McNeill, Esq.	5	1 6	160	36·75	...
D Cushendun (Agolagh)	Rev. St. A. Brenan ...	5	1 0	100 T	37·11	191
D Bushmills (Dundarave).....	Sir F.E. Macnaghten, Bt	5	1 0	162 T	33·62	222
LONDONDERRY.						
D Garvagh (Moneydig).....	Miss Morrison.....	5	1 0	121	36·83	197
D Londonderry (Clooney Terrace)..	Mr. J. Conroy	5	1 0	68 ⅄	36·40	240
D ,, (Creggan Res.).....	Mr. J. Hutchinson.....	8	1 0	320 T	37·26	243
D Limavady	C. D. H. Campbell, Esq.	5	4 0	81 T	31·42	229
,, (Drenagh).....	C. T. McCausland, Esq	5	1 0	80	34·90	224
Bellarena	Sir F. W. Heygate, Bt.	5	1 0	12 T	36·66	...
D Coleraine.....	J. Kennedy, Esq.	5	4 0	52 T	33·15	197
TYRONE.						
Moy (Derrygally)	W. M. Bond, Esq.	10	6 0	45	36·15	147
,, (,,)	,, ,, ,, ...	5	6 0	45	30·92	147

DIVISION XXIII.—ULSTER—*continued.*

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1891	Days on which .01 or more fell.
				ft. in.	ft. in.	inches.	
	TYRONE—(*con.*)						
D	Sixmilecross Rectory	Rev. R. S. G. Hamilton	5	1 0	400	38·19	219
D	Stewartstown (The Square)	A. Johnston, Esq.	5	1 4	300 T	35·28	185
D	Dungannon (Rockdale)	Col. Lowry	5	1 0	300 T	36·39	197
D	Stewartstown (Ardtrea Rectory)	Ven. Archd. Meade	5	1 0	191 T	35·20	213
D	Omagh (Edenfel)	Col. Buchanan	8	1 0	280 T	41·16	241
	DONEGAL.						
D	Killybegs	A. Brooke, Esq.	5	1 0	30	52·89	234
	Castlefinn (Finn Lodge)	Sir F. W. Heygate, Bt.	5	1 0	50	33·86	...
	Raphoe (Convoy Ho.)	Col. Montgomery	5	1 0	110 T	49·38	218
D	Letterkenny (Glen Alla)	W.R. Raven Hart, Esq.	5	1 0	400	47·98	240
	Bloody Foreland (Ardnadrean)	Rev. W. S. Griffith	5	0 9	39 T	46·32	...
D	Buncrana (Rockfort)	T. Colquhoun, Esq.	5	1 0	40 T	39·31	218
D	Moville (Prospect Villa)	Mr. J. Lowry	8	2 0	80	32·00	226
	,, (The Rectory)	Rev. S. R. Craig	5	1 0	110 B	39·50	251
D	Lough Swilly (Carrablagh)	H. C. Hart, Esq.	5	1 0	130	41·99	243
	Malin Head	The Meteor. Council	8	...	...	26·31	211

G. J. S.

RULES FOR RAINFALL OBSERVERS

EXTRACTED FROM

"ARRANGEMENTS

FOR THE

SYSTEMATIC OBSERVATION AND RECORD

OF THE

RAINFALL OF THE BRITISH ISLES.

BY

G. J. SYMONS, F.R.S."

EIGHTH EDITION.

SUGGESTIONS FOR SECURING UNIFORMITY OF PRACTICE AMONG RAINFALL OBSERVERS.

I.—SITE.—A rain gauge should not be set on a roof, a slope, or a terrace, but on a level piece of ground, at a distance from shrubs, trees, walls, and buildings—at the very least, as many feet from their base as they are in height. Tall-growing flowers, vegetables, and bushes must be kept away from the gauge. If a thoroughly clear site cannot be obtained, shelter is most endurable from N.W., N., and E., less so from S., S.E., and W., and not at all from S.W. or N.E.

II.—OLD GAUGES.—Old established gauges should not be moved, nor their registration discontinued until, at least, two years after a new one has been in operation, otherwise the continuity of the register will be irreparably destroyed. Both the old and the new ones must be registered at the same time, and the results recorded for comparison Changes, where inevitable, are least objectionable if made on January 1st.

III.—LEVEL AND FIXING.—The funnel of a rain gauge must be set quite level, and the gauge so firmly fixed that it will remain so in spite of any gale of wind or ordinary circumstance. Its correctness in this respect should be tested from time to time.

IV.—HEIGHT.—The funnels of gauges newly placed should be 1 ft. above grass. Information respecting height above sea level may be obtained from the Editor.

V.—RUST.—If the funnel of a japanned gauge becomes so oxidised as to retain the rain in its pores, or threatens to become rusty, it should have a coat of gas tar, or japan black. Copper gauges are free from this evil, and far the best.

VI.—FLOAT GAUGES.—If the measuring rod is detached from the float, it should never be left in the gauge. If it is attached to the float, it should be pegged or tied down, and only allowed to rise to its proper position at the time of reading. To allow for the weight of the float and rod, these gauges are generally so constructed as to show 0 only when a small amount of water is left in them. Care must always be taken to set the rod to the zero or 0.

VII.—CAN AND BOTTLE GAUGES.—The measuring glass should always be held upright, or placed on a level slab; the reading is to be taken midway between the two apparent surfaces of the water.

VIII.—TIME OF READING.—Nine a.m. daily; if taken only monthly, then 9 a.m. on the 1st.

IX.—Date of Entry.—The amount measured at 9 a.m. on any day is to be set against the previous one; because the amount registered at 9 a.m. of, say, 17th contains the fall during 15 hours of the 16th, and only 9 hours of the 17th.

X.—Mode of Entry.—If less than one-tenth (·10) has fallen, the cypher must *always* be prefixed; thus, if the measure is full up to the seventh line, it must be entered as ·07, that is, no inches, no tenths, and seven hundredths. There must always be two figures to the right of the decimal point. Even in the case of one-tenth of an inch (usually written ·1) a cypher must be added, making it ·10. Neglect of this rule causes much inconvenience. All columns should be cast *twice*—once up and once down, so as to avoid the same error being made twice. Never copy a total, always cast the column afresh. When there is no rain, a line should be drawn rather than cyphers inserted.

XI.—Caution.—The amount should always be written down before the water is thrown away.

XII.—Small Quantities.—The unit of measurement being ·01, observers whose gauges are sufficiently delicate to show less than that, are, if the amount is under ·005, to throw it away, if it is ·005 to ·010 inclusive, they are to enter it as ·01.

XIII.—Absence.—Every observer should train some one as an assistant; but where this is not possible, instructions should be given that the gauge be emptied at 9 a.m. on the 1st of the month, and the water bottled, labelled, and tightly corked, to await the observer's return.

XIV.—Heavy Rains.—When very heavy rains occur, it is desirable to measure immediately on their termination, and it will be found a safe plan after measuring to return the water to the gauge, so that the morning registration will not be interfered with. Of course if there is the slightest doubt as to the gauge holding all that falls, it must be emptied, the amount being written down, and added to the subsequent measurement.

XV.—Snow.—In snow three methods may be adopted—it is well to try them all. (1) Melt what is caught in the funnel by adding to the snow a previously ascertained quantity of warm water, and then, deducting this quantity from the total measurement enter the residue as rain. (2) Select a place where the snow has not drifted, invert the funnel, and turning it round, lift and melt what is enclosed. (3) Measure with a rule the average depth of snow, and take one-

twelfth as the equivalent of water. This being a very rough method, is not to be adopted if it can be avoided. Some observers use in snowy weather a cylinder of the same diameter as the rain gauge, and of considerable depth. If the wind is rough, all the snow is blown out of a flat-funnelled rain gauge. Snowdon pattern gauges are much the best.

XVI.—OVERFLOW.—Not a year passes in which some gauges are not allowed to overflow, it is therefore necessary to call attention to the fact that there does not seem to be any part of the British Isles where 4 inches may not fall in 24 hours. It is not desirable to purchase any gauge of which the capacity is less than 6 inches.

XVII.—SECOND GAUGES.—It is desirable that observers should have two gauges, and that one of them should be capable of holding 8 inches of rain. One of the gauges should be registered daily, the other weekly or monthly as preferred, but always on the 1st of each month. By this means a thorough check is kept on accidental errors in the entries, which is not the case if *both* are read daily. Observers having two gauges and recording both daily, should keep the records distinct, and forward a copy of each. Never take a mean of two.

XVIII.—DEW AND FOG.—Small amounts of water are at times deposited in rain gauges by fog and dew; they should be added to the amount of rainfall, because (1) they "tend to water the earth and nourish the streams;" and not for that reason only, but (2) because in many cases the rain gauges can be visited only monthly, and it would then obviously be impossible to separate the yield of snow, rain, &c. therefore, for the sake of uniformity, all must be taken together, and as except by watching all night it is never possible to be certain that small amounts are wholly dew, it is best to count all entries of ·01 in. or upwards as days with rain.

XIX.—DOUBTFUL ENTRIES.—Whenever there is the least doubt respecting the accuracy of any observation, the entry should be marked with a **?**, and the reason stated for its being placed there.

XX.—BREAKAGE.—The Editor has no desire to supply rain gauges or glasses, or in any way to undertake, or interfere with, that which is the business of Opticians; but the continuity and permanent accuracy of the records of his correspondents is to him of such importance, that he deems it advisable to announce that any assistance in his power is always at their service.

XXI.—LEAKAGE.—Observers should test their gauges occasionally to see that the amount collected is neither increased nor decreased by leakage.